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POWERMIX TRINITY SYSTEM

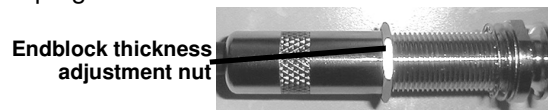
Thank you for purchasing the *PowerMix Trinity System*. This system consists of the finest components available and will provide you the very best and most versatile acoustic guitar sound reproduction and amplification.

Preparation and Pickup Installation:

- Please familiarize yourself with the supplied installation manuals for the *FanTaStick* undersaddle transducer and the *Pure* bridgeplate pickups. You can disregard the paragraphs regarding the endpin jack.
- First, install the *FanTaStick* undersaddle transducer following the corresponding manual and solder the RCA plug to its cable end (see photo with FanTaStick instructions).
- Second, install the *Pure* bridgeplate pickups following the supplied installation instructions.
- Third, place the *PowerMix 3-Channel Preamp*, the mic, the thumbwheel volume control board and the battery holder through the soundhole inside your guitar, but place them out of the way (for now). Install the endpin jack as described below. After this you will install the preamp parts and the microphone.
- The preamp has marked RCA inputs for the 2 pickups. The mic is hard-wired to the preamp.

Endpin Jack Installation:

- Unscrew the endpin jack's strap knob.
- Take off the nut and washer.
- Find out the thickness of your end block and set the nut on the cap accordingly (see picture below). Once in place, screw the cap against it to secure the nut.



- Insert the jack from the inside into the endpin hole.
TIP: a chopstick or something similar helps to get a hold on the jack and pull it through the hole.
- Attach the outside washer and nut and tighten. Attach the strap knob.

Note: Make sure that the strap knob screws in **ALL THE WAY** over the outer threaded part of the jack, so that a tiny portion of the thread is exposed when the strap-knob is tightened.

PowerMix 3-Channel Preamp:

- The *PowerMix 3-Channel Preamp* features 3-band EQ plus a gain control for each individual channel. These controls are called "trim pots". They can be turned with a fitting screwdriver. The EQ pots are in linear position (no cut or boost) when the white arrow points to a center position. Please keep in mind that the midrange trimmers, compared to bass and treble trimmers, are mounted with 90-degree clockwise orientation.
- The **gain** trimmers set the degree of pre-amplification on the input of the circuit. They act like volume controls but if they are set too high, distortion may occur. NOTE: the lowest (counterclockwise) setting does not shut the channel off. It is the lowest available gain setting. Use these gain trimmers to balance the 3 channels in a way that allows you for properly mixing them on the volume control element with the 3

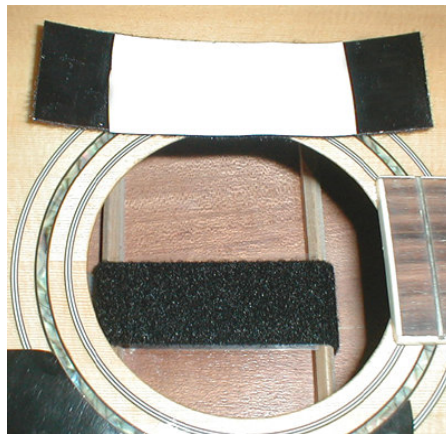
thumbwheel pots. We recommend to set the gain trimmers in a way that allows you to turn all 3 thumbwheel volume controls to a full volume and have all 3 channels on your maximum desired volume at once. From there you can blend the 3 channels in any way you desire.

- We factory preset these trimmers, but this setting will most likely not be the perfect setting for your guitar. Please feel free to adjust the trimmers in any way you like. **Tip:** Keep written records of the settings you like, just in case.
- The preamp's EQ and gain is supposed to be set to fit your guitar and your style. Once you found your settings, it is very likely that you never have to touch the controls again. Use the EQ on your amp or PA to compensate for different room acoustics.
- Please refer to the graphic diagram on the bottom of this manual for explanation of the preamp's controls.

NOTE: we supply a sticker, which shows the function of the EQ trimmers of the preamp and the arrangement of the thumbwheel pots. Please attach this sticker to your guitar case (or even to your guitar if you like).

Preamp Installation:

- The preamp attaches with its self-adhesive Velcro fastener. For convenience it is best to mount the preamp directly under the soundhole. However, some players may not want to do that. Therefore, we provide a temporary mounting technique: an elevated Velcro mounting strip attached to the 2 braces under the soundhole. This allows for quick access to the EQ trimmers with a long small blade screwdriver, but without sticking Velcro to the label of the guitar. Here is the procedure:
- Use the supplied 6" strip of Velcro and trim the length and the protection paper as shown in the photo below. Usually there is about 3 1/4" (85mm) distance between the 2 braces. Please measure your guitar and trim accordingly. Stick one Velcro-end to one brace, pull the strip tight and stick the other end to the next brace. Now you can temporarily attach the preamp to this strip.
- If you prefer you can keep the preamp attached in this way. It actually is quite sturdy. However, once you are done with your sound adjustments you can move the preamp to another location if desired.



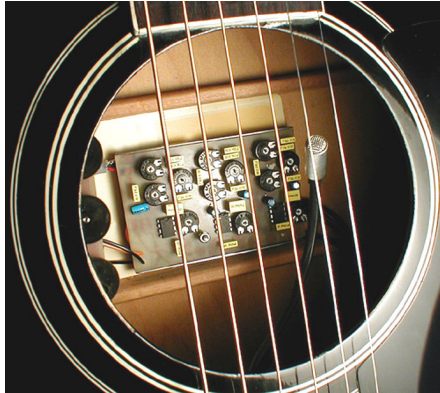
Temporary Velcro attachment for preamp mount

Installation of the Battery Holder:

- Please install the battery holder to the neck-block with its self-adhesive Velcro fastener. To change batteries we recommend to remove the entire holder, change the battery comfortably under the soundhole and re-attach it to the neck-block.

Installation of the Volume Control Element:

- Please install the volume control element with the three thumbwheel pots as shown in the photo below, on the inner edge of the soundhole (to the left of the low e string). Use its self-adhesive “Duallock” fastener.
- The three volume controls are arranged as follows (for a right handed person): the mic volume is on the left, facing the neck of the guitar. The *Pure* bridgeplate pickup is on the center pot and the *FanTaStick* undersaddle pickup is on the right, facing the bridge.



Volume control element, preamp and mic

Microphone Installation:

- We recommend attaching the mic with the supplied self-adhesive “Duallock” fastener to the inner edge of the soundhole at a 6 o'clock position (soundhole edge closest to the bridge, see photo below). The mic should point out of the soundhole. A good starting point is about 1 inch below soundboard level, aiming between the b and e string.
- The mic position or attachment point can of course be altered in any way you like. However, we have found that a mic position too deep inside the guitar does not sound natural. Even though the mic's volume appears to get louder the deeper you place it in the guitar it tends to have an unnatural “tunnel effect” tone character.
- Please start with the mic position shown in the photo below. After fine-tuning the EQ trimmers on the preamp, you can then move the mic a little higher (bring mic top to soundboard level) or move it lower and listen to the result. Different guitars tend to react differently to the mic position.



Microphone position

Connecting and securing the system:

- Plug the male RCA connector of the FanTaStick into its female counterpart and secure the connectors to a brace using the attached Duallock fastener.
- Use the supplied 1/2 " x 1-1/2" self-adhesive Velcro strips to secure the cables inside the guitar.
- **Note:** Please keep in mind that the battery holder wire should allow for removing the holder and bring it into a position to comfortably change the battery through the soundhole.
- **Note:** Please also keep in mind that the preamp might be relocated at a later date.

PowerMix Trinity System Graphics

