



Active Volume, Bass & Treble Controls for Fishman Acoustic Matrix Natural I, Acoustic Matrix Natural II and Powerjack preamps.

## System Requirements

These instructions support installation with the following systems:

- Fishman Acoustic Matrix Natural I & II—between Rev. 4.0 and 6.0
- Fishman Powerjack—Rev. 2.3
- Martin Gold Plus—between Rev. 4.0 and 6.0
- Martin Active Jack—Rev. 2.3

Please note that revision numbers for each pickup are printed on the circuit board inside the endpin jack.

Do not attempt to install the VTB with the discontinued Acoustic Matrix Natural or the Acoustic Matrix Hot preamps or similar versions of the Martin Gold Plus systems. These systems can be identified by the rectangular metal box that encases the electronics.



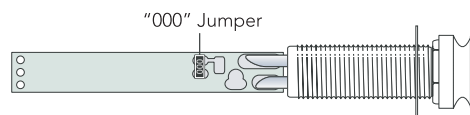
## Installation

**Warning!** Installation of the VTB is meant to be performed only by a professional repairperson.

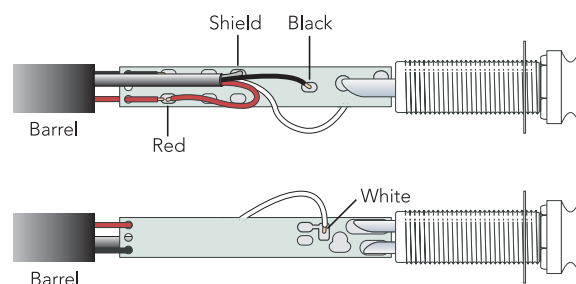
1. Locate the controls on the top of the instrument's shoulder, on the bass-side adjacent to the neck. Check for interference with the internal structural components, such as the neck block, the top braces or the lining. When you choose a location, be aware the VTB knobs must clear the interior lining of the guitar case. The single-shaft control is for volume and the dual shaft control is for bass (outer knob) and treble (inner knob).
2. Reinforce the mounting area with a backing strip of thin veneer glued to the inside of the guitar. Use the included drilling template to size the backing strip.
3. Fasten the template to locate  $\frac{3}{8}$ " (9.5mm) holes.

### Fishman Acoustic Matrix and Martin Gold Plus—Rev. 6.0:

1. Remove "000" jumper.

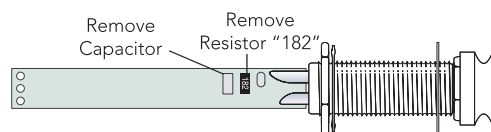


2. Thread cable assembly through barrel and solder as indicated.

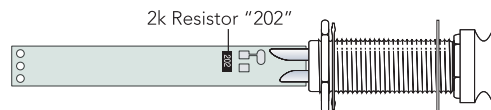


### Fishman Acoustic Matrix and Martin Gold Plus—Rev. 5.0, 5.3:

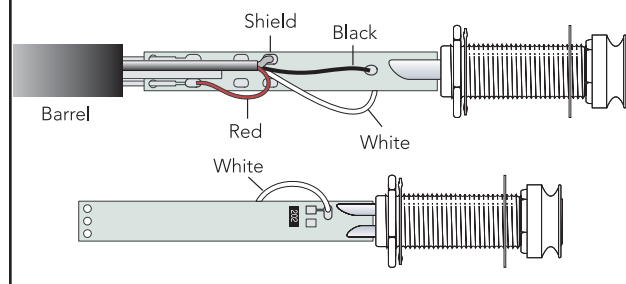
1. Remove the components from the endpin preamp as indicated



2. Solder the new 2k resistor (supplied with your VTB) to the preamp circuit board in place of the capacitor

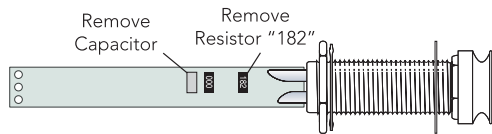


3. Thread cable assembly through barrel and solder as indicated.

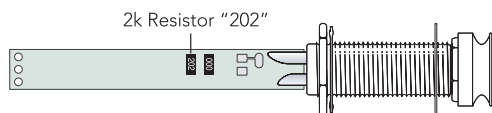


## Fishman Acoustic Matrix and Martin Gold Plus—Rev. 4.0:

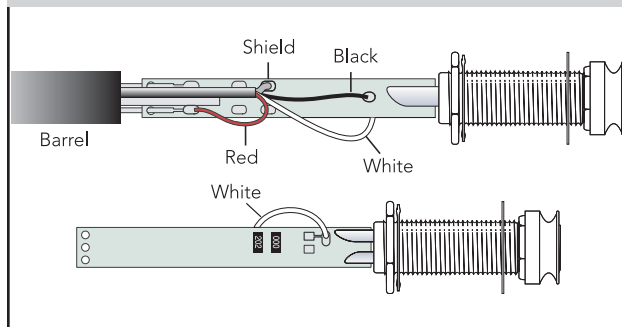
1. Remove the components from the endpin preamp as indicated



2. Solder the new 2k resistor (supplied with your VTB) to the preamp circuit board

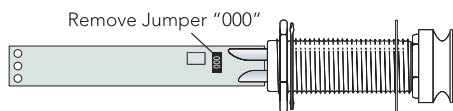


3. Thread cable assembly through barrel and solder as indicated.

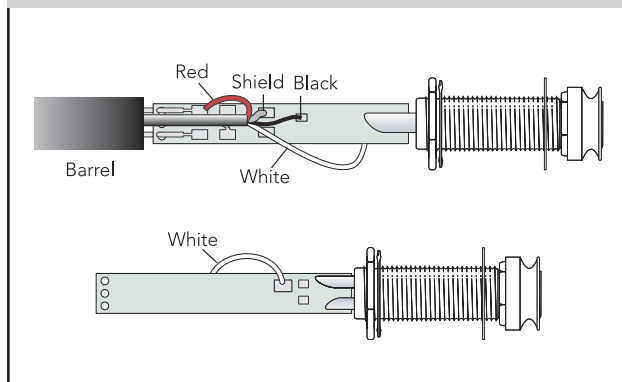


## Fishman Powerjack and Martin Active Jack—Rev. 2.3:

1. Remove the "000" jumper from the endpin preamp.



2. Thread cable assembly through barrel and solder as indicated.

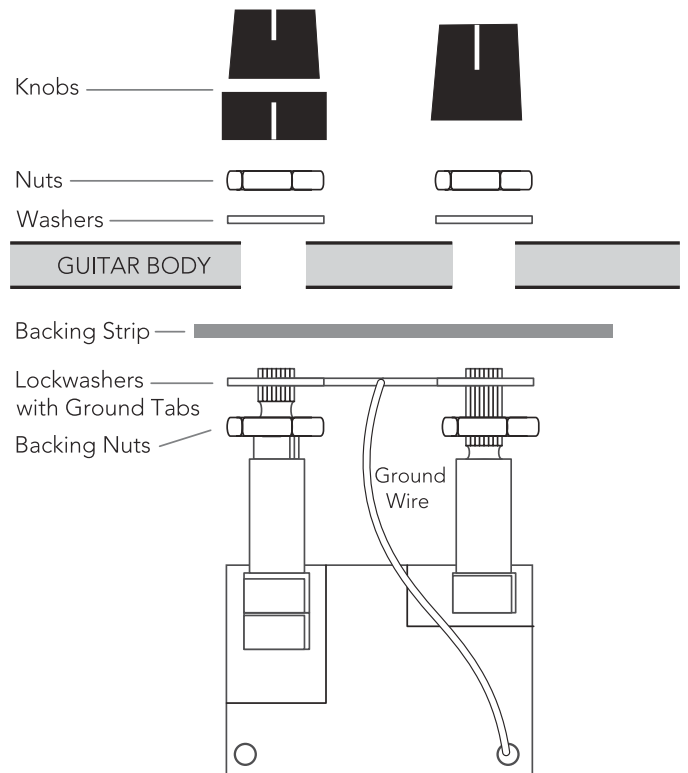


## Installation (continued)

4. Remove the endpin preamp and locate the revision number on the circuit board. Follow the soldering instructions that apply to the revision.

**Warning:** The surface-mount components on the endpin preamp can be easily overheated with a hot iron. Use only a low-wattage soldering iron and take care not to overheat the components.

5. Fasten the VTB as shown:



## Electrical Specifications

Typical current consumption @ 9Vdc:	0.85mA
Typical 9V alkaline battery life with Acoustic Matrix preamp:	500 hours
Nominal output impedance:	1k Ohm
Recommended load impedance:	10k Ohm and above
Signal gain (tone flat, volume at maximum):	0dB (unity)
Maximum output level (1% THD @ 3kHz):	+8dBV
Bass control (Outer shaft of dual pot):	±12dB @ 100Hz
Treble control (Inner shaft of dual pot):	±14dB @ 11kHz
Cable Color Code:	
White:	VTB Input
Red:	+9V
Black:	VTB Output
Copper shield:	Ground

Because we continually make improvements to our products, the specifications in this guide are subject to change without notice.

# FISHMAN

www.fishman.com

513-000-008 Rev B 11-06