

# ACTIVE ELECTRONICS FOR BASS GUITARS

## Onboard EQ TCM 3

Thank you for purchasing this **NOLLelectronic** accessory.  
We are confident that the onboard EQ TCM 3 will enhance the performance of your instrument. If you have any questions or comments, please contact us:

**[www.noll-electronic.de](http://www.noll-electronic.de)**

### **Warning**

Installation of the TCM 3 EQ may require structural modification to the instrument. We strongly recommend that any modifications be performed by a competent repair person. **NOLLelectronic** will be in no way responsible for damages to the instrument, incurred as a result of improper installation.

### **Description and Features**

The TCM 3 is a compact equalizer whose sealed version allows easy installation and offers a secure insulation. Bass-, treble- and midrange controls are center detented and allows 15dB of boost and cut. A push-pull volume control provide to switch between active and passive mode. The center detented balance control allows to blend between two pickups signals. The EQ requires power from a single 9 Volt battery and is combinable with all active and passive pickups. For a extra dynamic range it will runs with 18V also.  
For easy installation, the unit comes with self adhesive pads.

### **Installation and Connections**

**WARNING:** The solder pad terminals on the potentiometer are quite fragile and can be easily overheated. Use only a low wattage soldering iron (30 watts max.) to make your wire connections.

The TCM 3 comes complete prewired to all potentiometers, jack and battery clip.

- 1.Strip 3/32" (2,4mm) and tin the wire ends of the pickups.**
- 2.Solder the "hot"pickup wires to the solder pads of the balance pot, (see back chematics)**
- 3.Solder braids to the solder pads of Balance Pot or any common ground.**

### **Specifications**

<b>Power consumption</b>	<b>Typ. 0,6mA / 800 h batt. life</b>
<b>Input impedance</b>	<b>1MOhm</b>
<b>Output impedance</b>	<b>10KOhm</b>
<b>Operating Voltage</b>	<b>+9V to +18V</b>
<b>Bass control</b>	<b>+/- 15dB @ 40Hz</b>
<b>Mid control</b>	<b>+/- 15dB @ 400Hz</b>
<b>Treble control</b>	<b>+/- 15dB @ 4,2KHz</b>

Guitars and Basses need to be completely shielded in order to provide the best signal-to-noise ratio and safe operation. We recommend our **PROFESSIONAL COPPER FOIL SHIELDING** (#S1051) to intercept noise producing electrical signals by conducting the signal to a ground point.

## Solder the Balance potentiometer to the pickups

