

OP-4BT PREAMP

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Congratulations on your choice of the Ovation Acoustic/Electric guitar equipped with the OP-4BT preamp. This starting preamp is designed to provide essential features for a great acoustic/electric guitar experience. To ensure optimal performance, please read this manual thoroughly.

### OP-4BT PREAMP FEATURES

**1. GAIN:**

Adjusts the overall output level of the preamp. Turning this control clockwise increases sound level; counter-clockwise decreases sound level.

**2. EQ BASS:**

Boosts or cuts the low frequency elements of the guitar's sound. If moved above the center position the amount of low frequency power is increased. Below the center, these sound ore reduced. In the center detent position, the preamp does not affect these frequencies.

**3. EQ MID**

Boosts or cuts the middle frequency elements of the guitar's sound. If moved above the center position the amount of mid frequency power is increased. Below the center, these sound ore reduced. In the center detent position, the preamp does not affect these frequencies.

**4. EQ TREB**

Boosts or cuts the high frequency elements of the guitar's sound. If moved above the center position the amount of high frequency power is increased. Below the center, these sound ore reduced. In the center detent position, the preamp does not affect these frequencies.

**5. BUILT-IN TUNER**

The OP-4BT comes with a convenient built-in tuner, allowing you to easily tune your guitar without the need for external equipment. This feature ensures that you're always in tune and ready to play.

**6. DISPLAY**

When you play a note after pressing the tune button, the tunerdisplay window clearly annunciates the following information.



#### TUNER ENABLED

The upper and lower segments alternately flash when the tuner is on and no note is played.



#### NOTE IN TUNE

When the note played is in tune to the reference, the note name is displayed with a „diamond“ on the right.



#### NOTE FLAT

When the note is flat, the note name is displayed with an arrow pointing up—the direction to move the string's pitch.

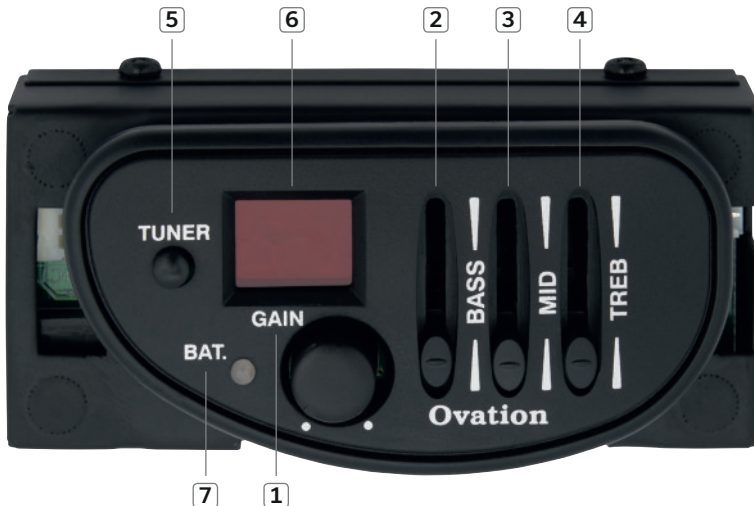


#### NOTE SHARP

When the note is sharp, the note name is displayed with a down arrow—the direction to move the string's pitch.

## 7. OPERATION

To operate the preamp, ensure you have a fresh 9V battery installed correctly in the battery compartment. Plugging in a 1/4" shielded guitar cable into the jack activates the electronics in your guitar. The tuner can be used without plugging in. For the best results, connect the guitar to a PA system or an acoustic guitar amp after setup.

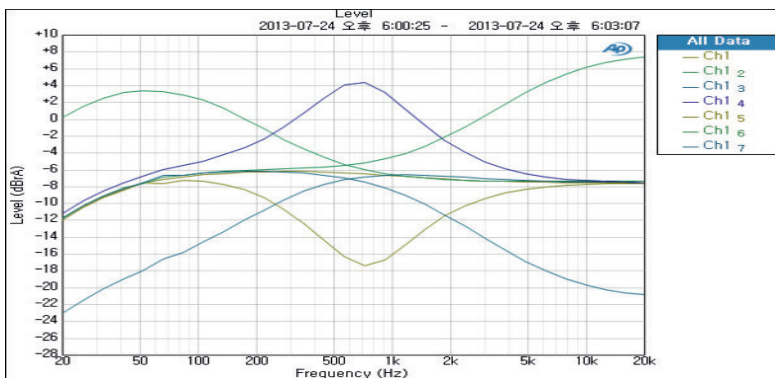


## Specifications

<b>INPUT</b>	1KHZ(SINE WAVE) 185mVac			
<b>VOLUME CONDITION</b>				
<b>Master Volume</b>	Max			
<b>Bass volume</b>	center			
<b>Treble Volume</b>	Center			
<b>Tuner s/w</b>	Off			
<b>Middle Volume</b>	Center			
<b>PIEZO OUTPUT</b>				
<b>100Hz(80mVac)</b>	1KHz(85mVac)	10KHz(78.3mVac)		
<b>Tuner on</b>	15mVac			
<b>-3DB Frequency</b>	30Hz			
<b>S/N Ratio</b>	38dB (Signal =>GND)			
<b>Hum &amp; Noise</b>	5mVac (Signal =>GND)			
<b>FREQUENCY RESPONSE</b>				
		Min	Center	Max
<b>Bass</b>	80Hz	29mVac	85.6mVac	260mVac
<b>Middle</b>	1KHz	29mVac	85.2mVac	238mVac
<b>Treble</b>	15KHz	16.7mVac	77.6mVac	413mVac

<b>LOW BATTERY</b>	5.5Vac
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<b>AP - TONE TEST</b>	
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