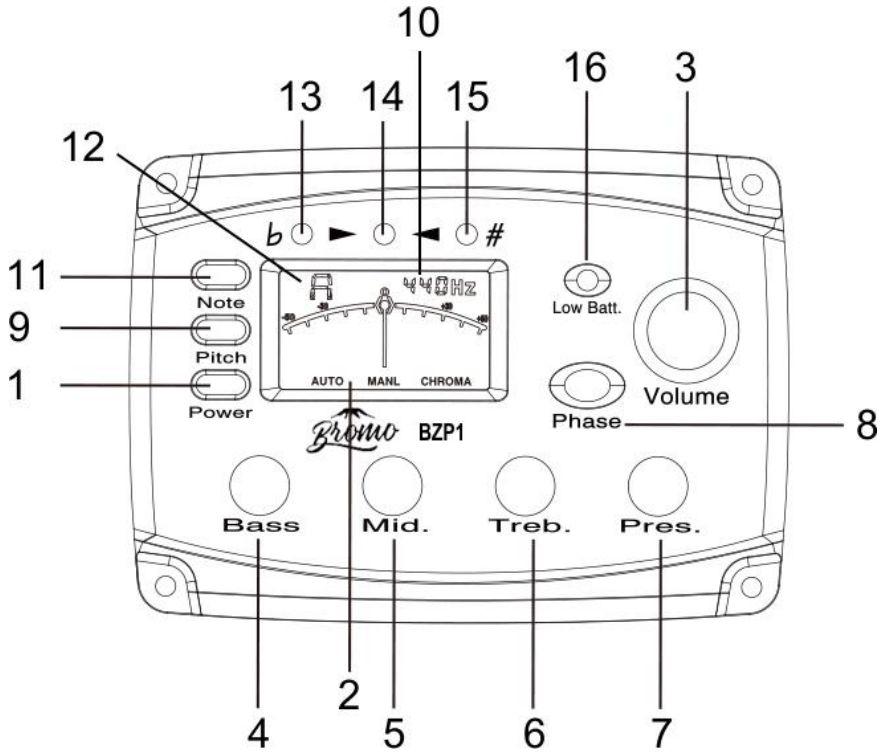
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Bromo BZP1 On-Board Pickup System User Guide

Engineered for gigging musicians, the BZP1 pickup system delivers studio-quality sound with the reliability you need on stage. Its comprehensive tone-shaping controls - including Volume, Bass, Mid, Treble, and Presence - let you fine-tune every nuance, from deep, warm lows to bright, crisp highs. Whether you're strumming softly or going full-on acoustic rock, the BZP1 ensures exceptional clarity and definition. With a built-in chromatic tuner and anti-feedback Phase switch, it's the perfect all-in-one solution for live performance.

Part 1 - Preamp Controls



1. Power Button: Press once to turn on the pickup. Press again to activate the tuner. Press again to deactivate the tuner. Press once more to turn the pickup off.
2. LCD Display
3. Volume Control: Turning counterclockwise decreases the volume; turning clockwise increases it.
4. Bass Control: ± 9dB at 60Hz
5. Mid Control: ± 9dB at 800Hz
6. Trebble Control: ± 9dB at 4kHz

7. Presence Control: ± 9dB at 12kHz
8. Phase Button: Press the Phase button in and out to find the position that sounds best to you. If feedback arises, press the switch once more.
9. Pitch Selector: Press to adjust the A4 pitch reference frequency.
10. A4 pitch frequency display
11. Note Selector: Press to activate the manual tuning mode and select for different notes.
12. Note name display
13. “Flat” indicator
14. “In Tune” indicator
15. “Sharp” indicator
16. Low battery indicator

Part 2 - Initial Setup

1. **Insert a fresh battery**
    - Open the battery compartment and insert a 9V battery.
2. **Turn everything down**
    - Set all guitar EQ controls (Bass, Mid, Treble, Presence) to the center (neutral/flat) position. This provides a clean, uncolored sound as a starting point.
    - Same as above, set all the tone controls (Bass, Mid, Treble) on your amplifier or mixer to a flat or neutral position - typically at 12 o’clock.
    - Turn both the volume control on your guitar and the volume control your amplifier or other sound systems all the way down. This prevents loud pops and protects your sensitive audio equipment from potential damage.
3. **Connect to an amp or PA system**
    - Use a standard 1/4" instrument cable.
4. **Power on and raise volume**
    - Turn on the pickup by pressing the “Power” button.
    - Turn on the Amp or sound system based on its instructions.
    - Turn the guitar Volume control to half (12 o’clock).
    - Slowly increase Amp or sound system volume to a comfortable level. Watch for feedback.

5. Fine-Tune Your Sound

- After setting the volume to a comfortable level, adjust your amp's EQ to suit your personal taste and playing environment.
- Once everything is set, use the tone controls on your guitar to shape certain frequencies during your performance.

Part 3 – Basic Tone Shaping Tips

Use EQ to adapt your tone to different environments:

- **Bass**: Boost for warmth and depth; cut if the sound is muddy or boomy.
- **Midrange**: Boost for punch and presence; cut to reduce honk or avoid clashing with vocals.
- **Treble**: Boost for brightness and articulation; cut to tame harshness or excessive pick noise.
- **Presence**: Boost for sparkle and air - especially useful for fingerstyle; cut to smooth out a brittle or overly sharp tone

Typically, cutting frequencies is often more effective than boosting. For example, for Clean/Acoustic Sounds, cutting excessive bass or low mids rather than boosting treble can help clear up muddiness and allow your higher frequencies to shine through.

But there are certainly moments when boosting can shine. For instance, a gentle boost in the 10–12 kHz range can add subtle sparkle and air, while a slight lift around 3–5 kHz may help the guitar cut through a dense mix with added presence.

As with any tonal adjustment, factors like music styles, personal preferences, room acoustics, amp placements, and other environmental conditions can significantly influence your sound. There are no hard and fast rules - it's best to experiment with different EQ settings and trust your ears to find the balance that complements both your playing style and the overall mix.

Part 4 - Using the Phase Switch

If you're experiencing unwanted low-end feedback on stage, or if your guitar sounds boomy or muddy through the PA, try pressing the "Phase" button and listen. If it helps, leave it on - if not, simply switch it back.

A phase switch is to help reduce low-frequency feedback during live performances. When using an acoustic-electric guitar with an amplifier or PA system, sound from the speakers can create a feedback loop - often heard as a low, rumbling hum. The phase switch helps reduce this by reversing the signal polarity, canceling out problem frequencies and helping keep your sound clean - especially at high volumes.

Part 6 - Using the Tuner

- **Activate the Tuner:** Press the "Power" button to switch on the tuner. When activated, the pickup output will be automatically muted to ensure accurate tuning without interference and unmuted when the tuner is deactivated.
- **Auto Mode:** After activation, the tuner enters auto mode. Play one string at a time; the tuner display will show the closest note name and indicate whether the pitch is flat, sharp, or in tune.
- **Manual Mode:** Press the "Note" button to enter manual mode. Press the "Note" button again to select from C, C#, D, D#, E, F, F#, G, G#, A, A# and B for the note you need. Pluck the string you want to tune to that note, then tighten or loosen the machine head slowly until it's in tune.
- **Pitch Button:** Press the "Pitch" button to adjust the A4 reference pitch. Adjustable range is from 433 to 477 Hz.
- **Exit Tuning Mode:** Press the "Power" button again to turn off the tuner and reactivate the pickup signal. If you don't exit tuning mode, the pickup won't transmit any signal from your guitar.

Part 7 - Battery & Maintenance

- **Unplug when not in use** to preserve battery life. Leaving it plugged in will drain the battery within a few days.
- The typical lifespan of a 9V alkaline battery is approximately 100 hours of continuous use for preamp only, and about 20 hours in tuning mode, depending on usage.
- Replace the battery if output weakens or the “Low Batt.” light flashes.