

EMG BTS System

EMG BTS System Instruction Manual

Model: BTS System (P/N: 654330600142)

1. INTRODUCTION

The EMG BTS System is a specialized tone control module designed exclusively for use with EMG active pickups. This system provides enhanced tonal shaping capabilities for your instrument. It features dedicated controls for bass and treble frequencies, allowing for precise adjustments to your sound.

All controls are center-detented, facilitating quick returns to a neutral tone setting. A dual-dip switch located on the PC board enables four distinct high-end frequency response programs, offering customization to suit various musical preferences and instrument setups.

2. KEY FEATURES

- **Bass Control:** Provides approximately 12dB of cut and boost for bass frequencies.
- **Treble Control:** Provides approximately 12dB of cut and boost for treble frequencies.
- **Center Detent:** All tone controls feature a center detent for easy return to a flat response.
- **Dual-Dip Switch:** Allows for four programmable high-end frequency response settings.
- **Compatibility:** Designed specifically for EMG active pickups.
- **Solderless Connections:** Facilitates easier installation (requires compatible EMG pickup connectors).

3. SETUP AND INSTALLATION

Installation of the EMG BTS System requires careful attention to wiring and component placement. This system is designed for use with EMG active pickups and utilizes solderless connections for convenience. Ensure all components are handled with care to prevent damage.

3.1 Component Overview

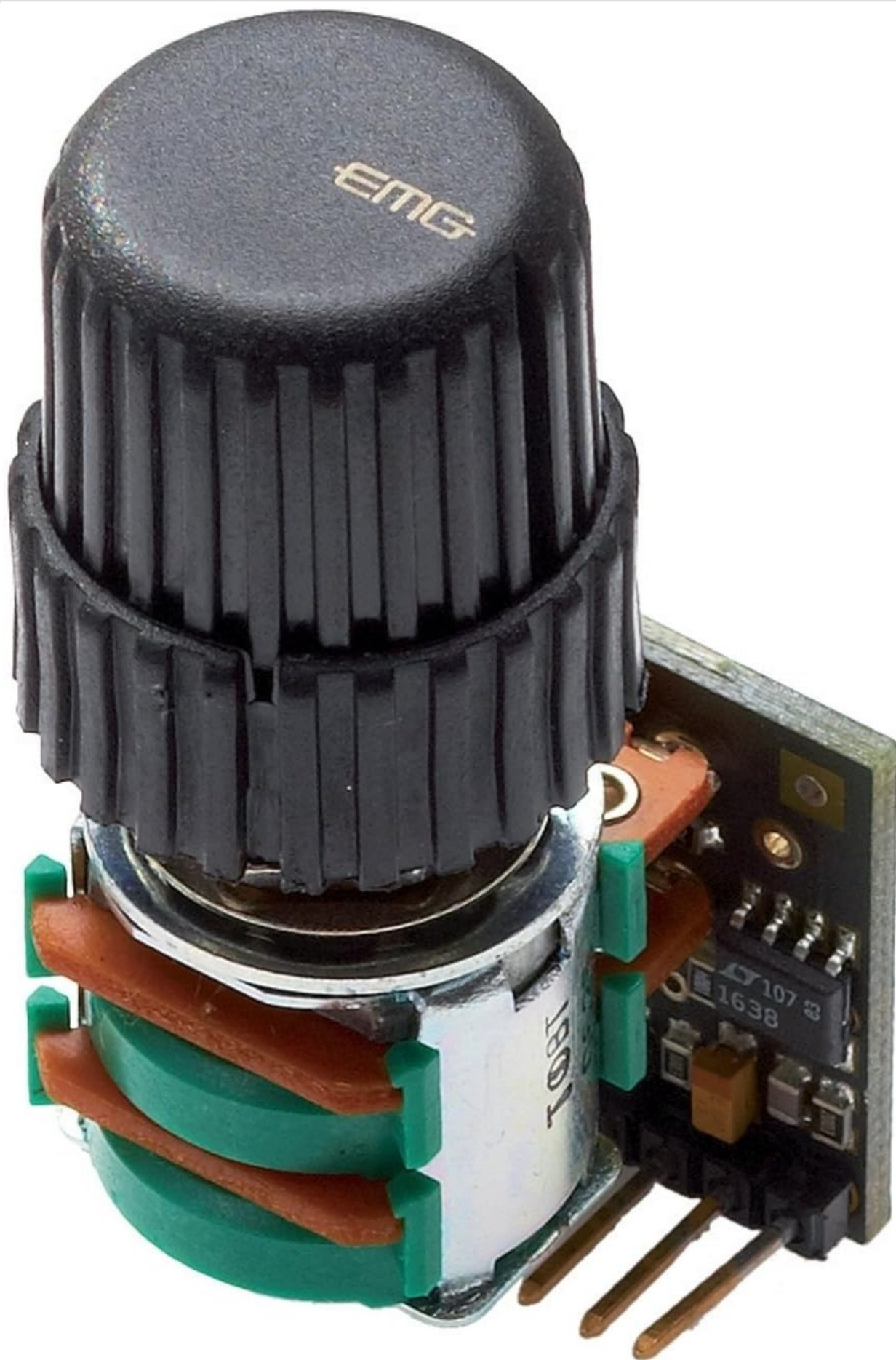


Figure 1: EMG BTS System Control Module. This image displays the EMG BTS System, featuring a black ribbed control knob mounted on a potentiometer. To the right, a small circuit board with integrated chips and components is visible, connected to the potentiometer. The system is designed for active pickup tone shaping.

3.2 Wiring Connections

1. **Compatibility Check:** Verify that your existing pickups are EMG active pickups. The BTS System is not compatible with passive pickups or other active systems.
2. **Power Supply:** The system operates on a single 9V battery. Ensure the battery is correctly connected to the power input.
3. **Pickup Connections:** Connect your EMG active pickups to the designated input terminals on the BTS system. Note that while the system uses solderless connections, specific pickup connectors may need to be acquired separately if not already present on your pickups.
4. **Output Jack:** Connect the output of the BTS system to your instrument's output jack.
5. **Grounding:** Ensure all components are properly grounded to minimize noise.

3.3 Dip Switch Configuration

The dual-dip switch on the PC board allows for customization of the high-end frequency response. Experiment with different settings to find the sound that best suits your instrument and playing style. Refer to the diagram below for switch positions and their corresponding frequency responses (*Note: Specific frequency details may vary; consult EMG's official documentation for precise values*).

- **Setting 1:** (Example: Both switches OFF) - Standard high-end response.
- **Setting 2:** (Example: Switch 1 ON, Switch 2 OFF) - Slightly brighter high-end.
- **Setting 3:** (Example: Switch 1 OFF, Switch 2 ON) - Milder high-end roll-off.
- **Setting 4:** (Example: Both switches ON) - Enhanced high-end presence.

4. OPERATION

Once installed, the EMG BTS System provides intuitive control over your instrument's tone. The system typically includes controls for master volume, balance, bass, and treble, depending on your specific configuration.

4.1 Tone Controls

- **Bass Control:** Rotate the bass knob clockwise to boost bass frequencies, and counter-clockwise to cut them. The center detent represents a neutral (flat) bass response.
- **Treble Control:** Rotate the treble knob clockwise to boost treble frequencies, and counter-clockwise to cut them. The center detent represents a neutral (flat) treble response.

The 12dB cut and boost range for both bass and treble allows for significant tonal variation. Adjust these controls to achieve your desired sound, from warm and mellow to bright and articulate.

4.2 Master Volume and Balance (if applicable)

If your BTS System configuration includes master volume and balance controls, operate them as follows:

- **Master Volume:** Adjusts the overall output level of your instrument.
- **Balance Control:** Blends the output of multiple pickups (e.g., neck and bridge pickups) to achieve a desired mix.

5. MAINTENANCE

The EMG BTS System is designed for durability and requires minimal maintenance. Adhering to these guidelines will help ensure its longevity and optimal performance:

- **Battery Replacement:** Replace the 9V battery regularly, especially if you notice a decrease in output level or tonal clarity. Active systems are powered by the battery.
- **Cleaning:** Keep the control knobs and surrounding areas clean. Use a soft, dry cloth to wipe away dust and grime. Avoid using abrasive cleaners or solvents.
- **Connections:** Periodically check all connections to ensure they are secure. Loose connections can lead to intermittent signal or noise.
- **Storage:** When not in use for extended periods, consider removing the battery to prevent potential leakage and damage to the circuit.

6. TROUBLESHOOTING

If you encounter issues with your EMG BTS System, consult the following troubleshooting tips before seeking professional assistance:

6.1 No Sound or Weak Output

- **Check Battery:** Ensure the 9V battery is fresh and correctly installed. A dead or weak battery is a common cause of no sound or low output from active systems.
- **Verify Connections:** Inspect all wiring connections, especially those to the pickups, output jack, and battery. Ensure they are secure and properly seated.
- **Output Jack:** Confirm the instrument cable is fully inserted into the output jack.

6.2 Excessive Noise or Hum

- **Grounding:** Ensure all components are properly grounded. Improper grounding can introduce hum.
- **Loose Connections:** Check for any loose wiring connections within the system.
- **External Interference:** Test the instrument in different locations to rule out external electrical interference from lighting, power supplies, or other electronic devices.

6.3 Tone Controls Not Functioning

- **Wiring:** Re-check the wiring for the bass and treble controls. Ensure they are correctly connected to the main circuit board.
- **Dip Switch Settings:** Verify the dip switch settings. Incorrect settings might lead to unexpected tonal behavior.

7. SPECIFICATIONS

Feature	Detail
Model Name	BTS System
Item Model Number	654330600142
ASIN	B0046W6IA4

Bass/Treble Control Range	Approximately 12dB cut/boost
Power Requirement	9V battery
Product Dimensions	5 x 4 x 3 inches
Item Weight	6.4 ounces
Date First Available	October 12, 2010

8. SUPPORT AND WARRANTY

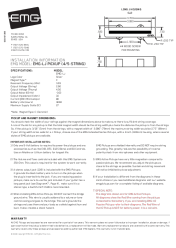
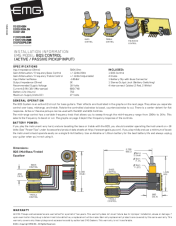
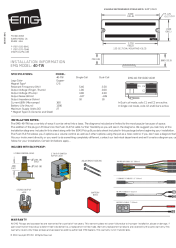
For further assistance, technical support, or warranty information regarding your EMG BTS System, please contact EMG directly. Their official website often provides detailed wiring diagrams, FAQs, and contact information for customer service.

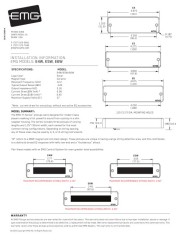
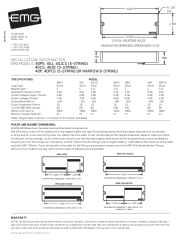
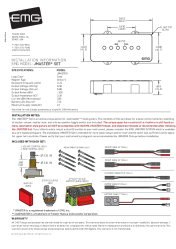
EMG Official Website: www.emgpickups.com

Please retain your proof of purchase for any warranty claims.

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Related Documents - BTS System

	<p>EMG-LJ Pickup Installation and Specifications</p> <p>Comprehensive guide for installing the EMG-LJ pickup for 4/5-string basses, covering specifications, wiring diagrams, and warranty information.</p>
	<p>EMG BQS Control Active Bass Preamp Installation and Operation Guide</p> <p>Comprehensive guide to installing and operating the EMG BQS Control active EQ preamp for bass guitars, including specifications, included components, general operation, battery power, dimensions, warranty, and detailed wiring diagrams for various configurations.</p>
	<p>EMG 40-TW Active Bass Pickup Installation Guide and Specifications</p> <p>Comprehensive installation guide and technical specifications for the EMG 40-TW active bass pickup. This document details wiring diagrams, component descriptions, and warranty information, enabling users to install and configure the pickup for various tonal options.</p>

 The image shows the cover of the EMG E-Series Bass Pickups installation guide. It features the EMG logo at the top left, followed by the title 'EMG E-Series Bass Pickups: Installation Guide and Specifications'. Below the title, there are several technical diagrams showing the dimensions and wiring of the pickups. The diagrams include top and side views of the pickups, as well as a wiring diagram showing the connection of the pickups to the instrument's output.	<p>EMG E-Series Bass Pickups: Installation Guide and Specifications</p> <p>Comprehensive installation instructions, wiring diagrams, specifications, and warranty information for EMG E4W, E5W, and E6W active soapbar bass pickups. Learn how to install these pickups in 4, 5, or 6-string instruments.</p>
 The image shows the cover of the EMG 40 Bass Pickup installation guide. It features the EMG logo at the top left, followed by the title 'EMG 40 Bass Pickup Installation Guide and Specifications'. Below the title, there are several technical diagrams showing the dimensions and wiring of the pickups. The diagrams include top and side views of the pickups, as well as a wiring diagram showing the connection of the pickups to the instrument's output.	<p>EMG 40 Bass Pickup Installation Guide and Specifications</p> <p>Comprehensive installation instructions, detailed specifications, dimensional data, and warranty information for EMG 40 series bass guitar pickups, including models 40P5, 40J, 40JCS, 40CS, 40DC, 40P, and 40PCS. Covers wiring diagrams for single and dual pickup configurations, including options for active tone controls and +18V operation.</p>
 The image shows the cover of the EMG JMASTER* SET active guitar pickup installation guide. It features the EMG logo at the top left, followed by the title 'EMG JMASTER* SET: Active Guitar Pickup Installation Guide'. Below the title, there are several technical diagrams showing the dimensions and wiring of the pickups. The diagrams include top and side views of the pickups, as well as a wiring diagram showing the connection of the pickups to the instrument's output.	<p>EMG JMASTER* SET: Active Guitar Pickup Installation Guide</p> <p>This document provides comprehensive installation instructions and technical specifications for the EMG JMASTER* SET active guitar pickup system. Designed for Jazzmaster-style guitars, it includes detailed wiring diagrams for various configurations, a list of included components, general notes, and warranty information. Learn how to install and connect your JMASTER* SET pickups for optimal performance.</p>