

CELESTION T5635

Celestion BL15-300X 15" 300W 4ohm Ceramic Bass Replacement Speaker

Model: T5635 | Brand: CELESTION

1. OVERVIEW

The Celestion BL15-300X is a 15-inch, 300W, 4-ohm ceramic bass replacement speaker from the Green Label Series. It is engineered for high-power rock performances, delivering a full-bodied, warm, and defined tone essential for bass amplification. This speaker is designed for durability and consistent performance in demanding audio environments.

Key Features:

- Extended low frequency response for improved bottom-end thump.
- Bumped back plate prevents voice coil from bottoming out.
- 300 Watts RMS and 96dB efficiency for high output with minimal effort.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this speaker. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Power Handling:** Do not exceed the rated power handling of 300 Watts RMS. Overpowering the speaker can cause permanent damage.
- **Impedance Matching:** Ensure the speaker's 4-ohm impedance matches the output impedance of your amplifier. Mismatched impedance can damage both the speaker and the amplifier.
- **Mounting:** Securely mount the speaker in a suitable enclosure. Improper mounting can lead to vibration, damage, or injury.
- **Wiring:** Always observe correct polarity when wiring the speaker to your amplifier. Incorrect polarity can result in poor sound quality and potential damage.
- **Ventilation:** Ensure adequate ventilation for the speaker and amplifier to prevent overheating.

3. SETUP

3.1 Unpacking

Carefully remove the speaker from its packaging. Inspect the speaker for any signs of damage during transit. Retain the packaging for future transport or storage.



Figure 1: Front view of the Celestion BL15-300X speaker, showcasing its robust construction and cone.

3.2 Mounting

The BL15-300X is designed for flush mounting in a bass guitar cabinet or other suitable speaker enclosure. Ensure the enclosure has the correct internal volume and porting (if applicable) for optimal performance with a 15-inch bass driver.

- **Enclosure Preparation:** Cut a circular opening in your cabinet with a diameter appropriate for a 15-inch speaker. Ensure the mounting surface is flat and free of obstructions.
- **Gasket:** Place a suitable gasket (not included) between the speaker frame and the cabinet baffle to ensure an airtight seal and prevent vibrations.
- **Secure Fastening:** Use appropriate screws (not included) to secure the speaker to the cabinet. Tighten screws evenly in a star pattern to prevent warping of the speaker frame. Do not overtighten.



Figure 2: Angled view of the Celestion BL15-300X, highlighting the speaker frame and mounting points for secure installation.

3.3 Wiring

This speaker has a 4-ohm impedance. Always verify the impedance requirements of your amplifier before connecting. Incorrect impedance can lead to damage.

- **Polarity:** Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier. Connect the negative (-) terminal of the speaker to the negative (-) output of your amplifier.
- **Cable Gauge:** Use high-quality speaker cables of appropriate gauge for the length of the run and power output to minimize signal loss.



Figure 3: Rear view of the Celestion BL15-300X, showing the speaker terminals for electrical connections.

4. OPERATING

Once properly installed and wired, the Celestion BL15-300X is ready for use. Follow these general guidelines for optimal performance:

- **Start Low:** Begin with your amplifier's volume and gain settings at a low level. Gradually increase them to your desired listening level.
- **Avoid Clipping:** Do not drive your amplifier into clipping (distortion), as this can send damaging square waves to the speaker, even if within its RMS power rating.
- **Break-in Period:** Allow for a break-in period of several hours of moderate use before pushing the speaker to its maximum capabilities. This allows the cone and surround materials to loosen up and achieve optimal performance.

5. MAINTENANCE

Proper maintenance will ensure the longevity and consistent performance of your Celestion BL15-300X speaker.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker cone and frame. Avoid using harsh chemicals or excessive moisture. Do not press on the cone.
- **Inspection:** Periodically inspect the speaker for any signs of wear, tear, or damage to the cone, surround, or dust cap. Check wiring connections for tightness and corrosion.
- **Storage:** If storing the speaker for an extended period, keep it in a cool, dry environment, ideally in its original packaging or a protective cover, to prevent dust accumulation and physical damage.

6. TROUBLESHOOTING

If you experience issues with your Celestion BL15-300X speaker, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	Loose or incorrect wiring; Amplifier off or faulty; Speaker damaged.	Check all connections; Verify amplifier power and function; Test speaker with another known good amplifier/source.
Distorted Sound	Overdriving amplifier; Damaged speaker cone/voice coil; Incorrect impedance match.	Reduce amplifier volume/gain; Inspect speaker for physical damage; Verify impedance match.
Low Volume	Incorrect wiring polarity; Low input signal; Amplifier settings.	Check speaker polarity; Increase input signal level; Adjust amplifier settings.

If the problem persists after attempting these steps, contact a qualified technician or Celestion customer support.

7. SPECIFICATIONS

Detailed technical specifications for the Celestion BL15-300X speaker:

Specification	Value
Brand	CELESTION
Model Number	T5635
Speaker Size	15 Inches
Speaker Maximum Output Power	300 Watts RMS
Impedance	4 Ohms

Specification	Value
Efficiency	96 dB
Speaker Type	Component
Mounting Type	Flush Mount
Item Weight	12.85 Pounds
UPC	739894563550

8. WARRANTY & SUPPORT

This Celestion speaker comes with a Limited Warranty. Please refer to the official Celestion website or your purchase documentation for specific terms and conditions regarding warranty coverage.

Customer Support:

For technical assistance, warranty claims, or product inquiries, please contact Celestion customer support through their official website or the contact information provided with your purchase.