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CELESTION T6382

CELESTION VT Junior Guitar Speaker User Manual

Model: T6382 | Brand: CELESTION

INTRODUCTION

The CELESTION VT Junior Guitar Speaker is a high-quality 10-inch speaker designed for guitar amplifiers. It delivers a balanced and musical tone, offering a juicy low-mid punch, plenty of high-end sparkle, and thrilling responsiveness. This speaker is ideal for replacement and upgrade applications in various practice combos and amplifier setups. It is engineered with a blend of traditional and modern design techniques to provide an authentic and engaging playing experience.

TECHNICAL SPECIFICATIONS



Front view of the speaker, showing the Celestion logo and VT Jr. model designation.



Side profile of the speaker, highlighting the cone and frame structure.



Rear view of the speaker, showing the magnet and terminal connections.



Angled view of the speaker, providing a perspective of its depth and construction.

General Specifications

Feature	Value
Nominal Diameter	254mm (10 inches)
Power Rating	50W
Sensitivity	95dB
Rated Impedance	8Ω
Frequency Range	90-5500Hz
Resonance Frequency (Fs)	90Hz
DC Resistance (Re)	6.78Ω
Voice Coil Diameter	44mm (1.75in)
Chassis Type	Pressed steel
Magnet Type	Ceramic
Magnet Weight	0.56kg (20oz)
Voice Coil Material	Round copper

Mounting Information

Feature	Value
Magnet Structure Diameter	115mm (4.5in)
Mounting Slot Dimensions	6.5x11mm (0.25x0.43in)

Mounting Slot PCD	245mm (9.6in)
Number of Mounting Slots	8
Overall Depth	93mm (3.7in)
Cut-out Diameter	229mm (9.0in)

Physical Characteristics

Feature	Value
Unit Weight	1.6kg (3.5lb)
Product Dimensions	4.7"D x 11"W x 11"H
Item Weight (Shipping)	5.57 pounds
Material	Ceramic, Pressed steel

SETUP AND INSTALLATION

Proper installation of your CELESTION VT Junior speaker is crucial for optimal performance and safety. Always ensure your amplifier is disconnected from power before beginning any installation.

Tools Required:

- Screwdriver (appropriate for your amplifier’s speaker mounting screws)
- Wire strippers (if replacing existing speaker wires)
- Soldering iron and solder (if connections are soldered) or crimping tool (for spade connectors)

Installation Steps:

1. **Safety First:** Disconnect your amplifier from the main power supply and allow any residual charge to dissipate.
2. **Access Speaker Compartment:** Carefully open your amplifier's cabinet to access the existing speaker. This may involve removing a back panel or front grille.
3. **Disconnect Old Speaker:** Note the polarity (+ and -) of the existing speaker connections. Disconnect the wires from the old speaker.
4. **Remove Old Speaker:** Unscrew and carefully remove the old speaker from the cabinet.
5. **Mount New Speaker:** Align the CELESTION VT Junior speaker with the mounting holes in the cabinet. Secure it firmly using the appropriate screws. Ensure the speaker is seated flush and evenly.
6. **Connect New Speaker:** Connect the amplifier's speaker wires to the terminals on the CELESTION VT Junior speaker, observing correct polarity. Typically, the positive (+) terminal is marked with a red dot or a larger tab, and the negative (-) terminal is unmarked or has a smaller tab. Incorrect polarity can lead to phase issues.
7. **Secure Cabinet:** Close and secure the amplifier cabinet.
8. **Test:** Reconnect your amplifier to power and test the sound at a low volume before increasing.

Note: If you are unsure about any step, consult a qualified technician.

OPERATING GUIDELINES

The CELESTION VT Junior speaker is designed to integrate seamlessly with your guitar amplifier. Follow these guidelines for optimal performance and longevity:

- **Impedance Matching:** Always ensure the impedance of the speaker (8 Ohm for this model) matches the output impedance setting of your amplifier. Mismatched impedance can damage both the amplifier and the speaker.
- **Power Handling:** This speaker has a power rating of 50W. Ensure your amplifier's output power does not significantly exceed this rating to prevent speaker damage. While brief peaks are generally tolerated, continuous overpowering can lead to failure.
- **Break-in Period:** New speakers, including the VT Junior, often benefit from a "break-in" period. This involves playing the speaker at moderate volumes for several hours (e.g., 10-20 hours) to allow the cone and suspension to loosen up. This process can enhance the speaker's tonal characteristics and responsiveness.
- **Volume Control:** Use your amplifier's volume and gain controls responsibly. Excessive volume, especially with high gain settings, can cause speaker distortion or damage.
- **Environmental Conditions:** Operate the speaker in a stable environment, avoiding extreme temperatures, high humidity, or direct sunlight.

CARE AND MAINTENANCE

To ensure the longevity and continued performance of your CELESTION VT Junior speaker, follow these simple maintenance tips:

- **Cleaning:** Gently wipe the speaker frame and cone with a soft, dry cloth to remove dust. Avoid using liquid cleaners or abrasive materials, especially on the speaker cone.
- **Inspection:** Periodically inspect the speaker for any visible damage, such as tears in the cone, loose connections, or bent frame. Address any issues promptly.
- **Storage:** If storing the speaker separately from an amplifier, keep it in a dry, temperate environment, away from direct sunlight and extreme temperature fluctuations. Protect it from physical impact.
- **Avoid Over-Excursion:** While the speaker is designed for guitar amplification, avoid pushing it to extreme volumes that cause audible buzzing or flapping sounds, as this indicates over-excursion and can lead to damage.

TROUBLESHOOTING

If you encounter issues with your CELESTION VT Junior speaker, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	Loose or incorrect wiring; Amplifier issue; Damaged speaker.	Check all speaker connections for proper polarity and tightness. Test the amplifier with another known working speaker. If the speaker is damaged, it may need replacement.
Distorted Sound / Buzzing	Overpowering the speaker; Loose speaker mounting; Damaged cone or voice coil; Amplifier issue.	Reduce amplifier volume/gain. Check speaker mounting screws for tightness. Inspect the speaker cone for tears or creases. Test with another speaker to isolate if the issue is with the amplifier.
Weak or Thin Sound	Incorrect impedance matching; Speaker not fully broken in; Phase issue.	Verify amplifier output impedance matches speaker impedance (8 Ohm). Allow for break-in period. Double-check speaker wire polarity.
Intermittent Sound	Loose connections; Faulty speaker cable; Internal speaker wiring issue.	Check all connections. Try a different speaker cable. If the issue persists, internal inspection by a qualified technician may be required.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact customer support.

WARRANTY INFORMATION

The CELESTION VT Junior Guitar Speaker comes with a **Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to the documentation provided with your purchase or visit the official Celestion website.




SUPPORT AND RESOURCES

For further assistance, technical inquiries, or to download the official user guide, please use the following resources:

- **Official User Guide (PDF):** [Download User Guide](#)
- **Manufacturer Website:** Visit the official Celestion website for product information, FAQs, and contact details.
- **Customer Service:** Contact your retailer or Celestion customer support for direct assistance.

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Related Documents - T6382

	<p>Traynor YCV20 Guitar Amplifier Parts List and Diagram</p> <p>Comprehensive parts list and identification guide for the Traynor YCV20 guitar amplifier, featuring component numbers, descriptions, and visual callouts for service and maintenance. Includes details for standard and Wine Red versions.</p>
	<p>Harley Benton HB-80B Bass Combo User Manual</p> <p>Comprehensive user manual for the Harley Benton HB-80B bass combo amplifier, covering safety instructions, features, connections, technical specifications, and environmental protection.</p>
	<p>Stage Right SB12 50-Watt Tube Guitar Amp Combo User Manual</p> <p>User manual for the Stage Right SB12 50-watt all-tube 2-channel 1x12 guitar amplifier combo. Includes safety guidelines, product overview, specifications, and regulatory compliance information.</p>

