

## Orange SUPER-CRUSH-100-H

# Orange Super Crush 100 Watt Amplifier Head User Manual

Model: SUPER-CRUSH-100-H

## INTRODUCTION

The Orange Super Crush 100 Watt Amplifier Head is an all-analogue, solid-state guitar amplifier designed to deliver the tonal characteristics of Orange's high-end valve amplifiers. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your amplifier.

Key features include a two-channel design (footswitchable), an all-analogue single-ended preamp, a 100W Class A/B power amp, built-in digital reverb (footswitchable), and a balanced XLR output with CabSim.

## SAFETY INFORMATION

Please read and understand all safety instructions before operating this product. Retain this manual for future reference.

- **Power Supply:** Connect the amplifier only to the specified power supply voltage. Ensure the power cable is undamaged.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the amplifier to prevent overheating.
- **Moisture:** Do not expose the amplifier to rain, moisture, or excessive humidity. Keep liquids away from the unit.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to service the unit yourself.
- **Speaker Connections:** Always connect the amplifier to a suitable speaker cabinet with the correct impedance before powering on. Failure to do so can damage the amplifier.
- **Hearing Protection:** This amplifier can produce high sound pressure levels. Prolonged exposure to high volume can cause permanent hearing damage. Use hearing protection when operating at high volumes.

## SETUP

### 1. Unpacking

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

## 2. Connecting to a Speaker Cabinet

The Super Crush 100 requires connection to an external speaker cabinet. Locate the speaker output jacks on the rear panel. Ensure your speaker cabinet's impedance matches the amplifier's output impedance (typically 8 or 16 ohms). Use a high-quality speaker cable (not a guitar cable) for this connection.

## 3. Connecting Your Guitar

Plug your guitar into the 'INPUT' jack on the front panel using a standard instrument cable.

## 4. Powering On/Off

Before powering on, ensure all volume controls are set to minimum. Connect the power cable to the amplifier and a suitable power outlet. Flip the 'POWER' switch to the 'ON' position. The power indicator light will illuminate.

## 5. Footswitch Connection

A footswitch (sold separately) can be connected to the rear panel to remotely switch between the Clean and Dirty channels and to activate/deactivate the Reverb effect.

## OPERATING THE AMPLIFIER

The Super Crush 100 features two distinct channels: Clean and Dirty, each with independent controls.



*Image: Front panel controls of the Orange Super Crush 100 Watt Amplifier Head.*

### Front Panel Controls

- **POWER Switch:** Turns the amplifier on and off.
- **CHANNEL Switch:** Toggles between the Clean and Dirty channels.
- **CLEAN Channel Controls:**
  - **VOLUME:** Adjusts the overall output level of the Clean channel.
  - **TREBLE:** Adjusts the high-frequency response.
  - **MIDDLE:** Adjusts the mid-range frequency response.
  - **BASS:** Adjusts the low-frequency response.
- **DIRTY Channel Controls:**
  - **VOLUME:** Adjusts the overall output level of the Dirty channel.

- **TREBLE:** Adjusts the high-frequency response.
- **MIDDLE:** Adjusts the mid-range frequency response.
- **BASS:** Adjusts the low-frequency response.
- **GAIN:** Controls the amount of overdrive/distortion in the Dirty channel.

- **MASTER Controls:**

- **VOLUME:** Global output volume for both channels.
- **REVERB:** Controls the level of the built-in digital reverb effect.

- **INPUT:** 1/4" jack for connecting your guitar.

## Rear Panel Connections

The rear panel provides additional connectivity options:

- **FX Loop (Send/Return):** For connecting external effects pedals. Connect the 'SEND' to the input of your effects unit and the output of your effects unit to the 'RETURN'.
- **Balanced XLR Out with CabSim:** Provides a direct output for recording or connecting to a PA system, featuring Orange's CabSim technology for realistic speaker cabinet emulation.
- **Footswitch Input:** For connecting an optional footswitch to control channel switching and reverb.
- **Speaker Outputs:** Multiple jacks for connecting to speaker cabinets with various impedance ratings.

## MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your amplifier.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use abrasive cleaners or solvents.
- **Storage:** Store the amplifier in a dry, temperature-controlled environment, away from direct sunlight and extreme temperatures.
- **Transportation:** When transporting the amplifier, ensure it is securely packed to prevent physical damage.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris.

## TROUBLESHOOTING

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If you encounter issues with your Super Crush 100, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound	<ul style="list-style-type: none"> <li>Power not connected or switched on.</li> <li>Speaker cable disconnected or faulty.</li> <li>Guitar cable disconnected or faulty.</li> <li>Volume controls set to minimum.</li> <li>Incorrect speaker impedance.</li> </ul>	<ul style="list-style-type: none"> <li>Check power connection and switch.</li> <li>Verify speaker cable connection and test with another cable.</li> <li>Test guitar cable and guitar.</li> <li>Increase Master and Channel Volume controls.</li> <li>Ensure speaker cabinet impedance matches amplifier output.</li> </ul>
Distorted sound (unexpected)	<ul style="list-style-type: none"> <li>Gain too high on Clean channel.</li> <li>Faulty cables or guitar.</li> <li>Speaker damage.</li> </ul>	<ul style="list-style-type: none"> <li>Reduce Gain on the Dirty channel or switch to Clean.</li> <li>Test with different cables and guitar.</li> <li>Check speaker for damage.</li> </ul>
Hum or unwanted noise	<ul style="list-style-type: none"> <li>Ground loop.</li> <li>Faulty cables.</li> <li>Interference from other electronics.</li> </ul>	<ul style="list-style-type: none"> <li>Try plugging into a different power outlet.</li> <li>Test with different cables.</li> <li>Move amplifier away from other electronic devices.</li> </ul>
Reverb not working	<ul style="list-style-type: none"> <li>Reverb control set to minimum.</li> <li>Internal fault.</li> </ul>	<ul style="list-style-type: none"> <li>Increase the Reverb control.</li> <li>If issue persists, contact support.</li> </ul>

If these steps do not resolve the issue, please contact Orange customer support.

## SPECIFICATIONS



*Image: Dimensions of the Orange Super Crush 100 Watt Amplifier Head.*

- **Model:** SUPER-CRUSH-100-H
- **Output Wattage:** 100 Watts
- **Channels:** 2 (Clean, Dirty)
- **Preamp:** All-Analogue, Single-Ended
- **Power Amp:** Class A/B
- **Reverb:** Built-in Digital (Footswitchable)
- **Outputs:** Balanced XLR Out with CabSim, Speaker Outputs
- **FX Loop:** Yes
- **Compatible Devices:** Guitar
- **Material:** Metal chassis with Orange Tolex covering
- **Product Dimensions:** 13.4 x 25.5 x 12.4 inches (34 x 64.8 x 31.5 cm)
- **Item Weight:** 30.4 pounds (13.8 kg)

## WARRANTY

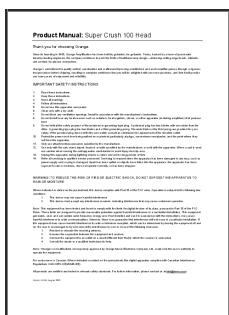
Orange products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. Please refer to the warranty card included with your product or visit the official Orange Amplification website for detailed warranty terms and conditions specific to your region.

## SUPPORT

For further assistance, technical support, or service inquiries, please contact Orange Amplification customer service through their official website or authorized distributors in your area. Please have your product model and serial number available when contacting support.

**Official Website:** [orangeamps.com](http://orangeamps.com)

## Related Documents - SUPER-CRUSH-100-H

 <b>Product Manual: Super Crush 100 Head</b> <small>Product manual for the Orange Super Crush 100 Head amplifier, detailing safety instructions, setup, controls, rear panel features, and product specifications.</small>	<a href="#"><u>Orange Super Crush 100 Head Product Manual</u></a> <small>User manual for the Orange Super Crush 100 Head amplifier, detailing safety instructions, setup, controls, rear panel features, and product specifications.</small>
 <b>Product Manual: Gain Baby 100</b> <small>Product manual for the Orange Gain Baby 100 guitar amplifier, detailing safety instructions, operational details, and technical specifications.</small>	<a href="#"><u>Orange Gain Baby 100 Product Manual</u></a> <small>This product manual provides essential safety instructions, operational details, and technical specifications for the Orange Gain Baby 100 guitar amplifier. Learn about its front panel controls, rear panel connections, and product features.</small>

 <small>OWNERS MANUAL</small>	<p><a href="#"><u>Orange Crush PiX 100BXT Owner's Manual</u></a></p> <p>This owner's manual provides essential information for the Orange Crush PiX 100BXT guitar amplifier, covering safety instructions, front and rear panel features, specifications, and warranty details.</p>
 <small>OWNERS MANUAL</small>	<p><a href="#"><u>Orange Terror Bass Owner's Manual: Setup, Operation, and Safety</u></a></p> <p>This owner's manual provides essential safety instructions, setup procedures, and operational guidance for the Orange Terror Bass amplifier. Learn about front panel controls, rear connections, valve servicing, and important safety warnings for this high-quality bass amplification unit.</p>
 <small>Product Manual: Dual Terror</small>	<p><a href="#"><u>Orange Dual Terror Guitar Amplifier Product Manual</u></a></p> <p>Product manual for the Orange Dual Terror guitar amplifier, covering safety instructions, features, controls, rear panel connections, and technical specifications. Learn how to safely operate and maintain your amplifier.</p>
 <small>OWNERS MANUAL</small>	<p><a href="#"><u>Orange Rockerverb 100 MkII &amp; DIVO Embedded Owner's Manual</u></a></p> <p>Owner's manual for the Orange Rockerverb 100 MkII and DIVO Embedded guitar amplifier, providing setup, safety, and operational information.</p>