

## Orange Crush20RT

# Orange Crush 20RT Guitar Amplifier

## USER INSTRUCTION MANUAL

Model: Crush20RT

### Introduction

This manual provides essential information for the safe and effective operation of your Orange Crush 20RT guitar amplifier. Please read these instructions thoroughly before use and retain them for future reference. The Orange Crush 20RT is a 20-watt, 2-channel solid-state guitar amplifier featuring an 8-inch speaker, built-in reverb, and a chromatic tuner. It is designed for practice and small-venue performance.

### Safety Information

- Ensure the amplifier is connected to a grounded power outlet.
- Do not expose the amplifier to rain or moisture.
- Do not block ventilation openings.
- Refer all servicing to qualified service personnel.
- Disconnect power before cleaning or replacing fuses.

### Setup

Follow these steps to set up your Orange Crush 20RT amplifier:

1. **Unpacking:** Carefully remove the amplifier from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the amplifier on a stable, level surface. Ensure adequate ventilation around the unit.
3. **Power Connection:** Locate the AC mains input on the rear panel. Ensure the power switch is in the 'OFF' position. Connect the supplied power cord to the amplifier and then to a suitable grounded AC power outlet. Verify the voltage selector switch (if present) matches your local mains voltage.
4. **Instrument Connection:** Connect your guitar to the 'INPUT' jack on the front panel using a standard 1/4-inch instrument cable.



Figure 1: Front view of the Orange Crush 20RT amplifier. This image shows the iconic orange Tolex finish, the woven speaker grille, and the Orange logo.

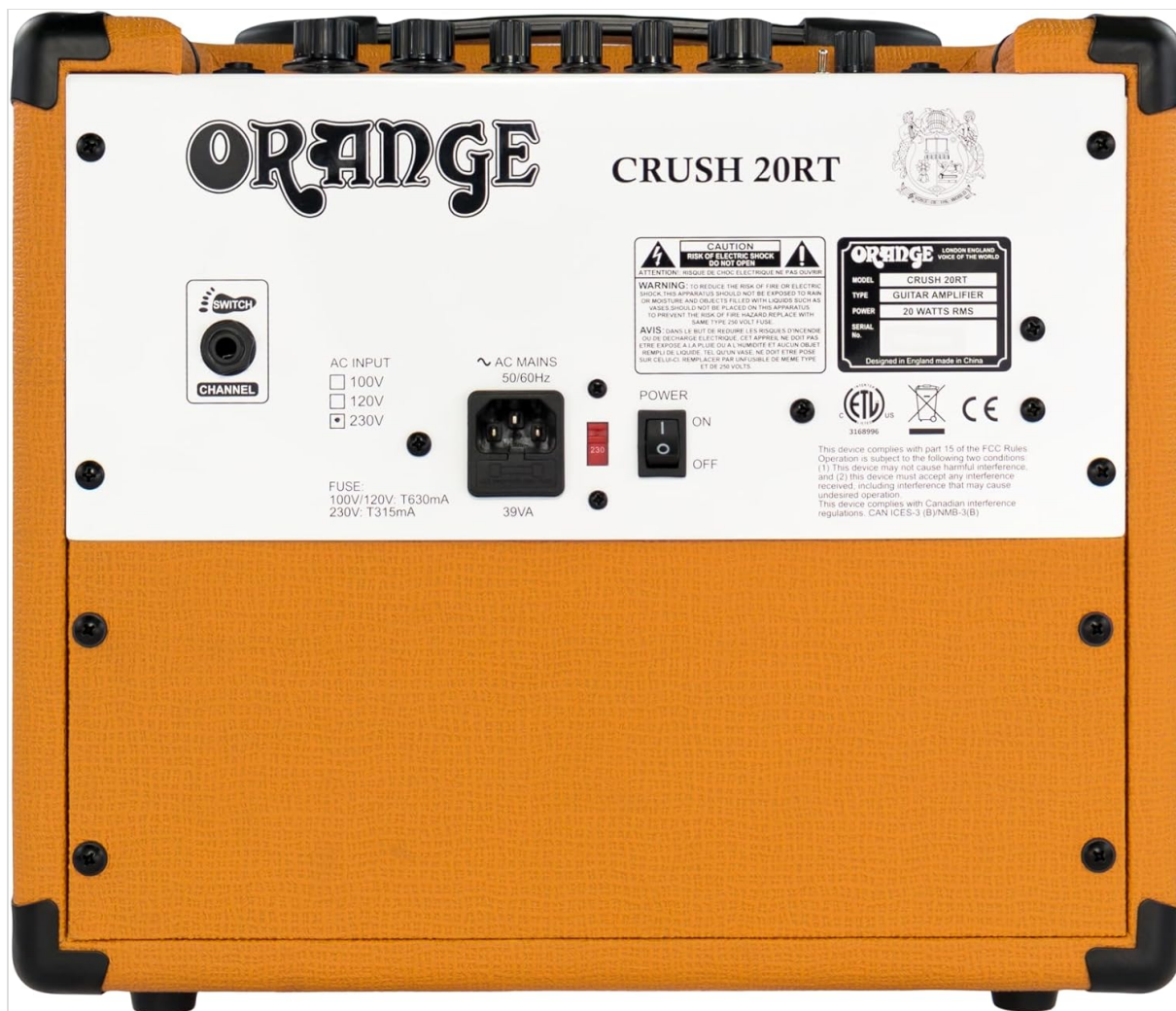


Figure 2: Rear panel of the Orange Crush 20RT amplifier. This image displays the AC mains input, fuse holder, power switch, and voltage selector.

## Operating Instructions

The Orange Crush 20RT features intuitive controls for shaping your sound.





Figure 3: Top-down view of the Orange Crush 20RT control panel. This image highlights the various knobs and jacks for input, channels, EQ, gain, volume, reverb, aux in, and phones.

### Front Panel Controls:

- **INPUT:** 1/4-inch jack for connecting your guitar.
- **CHANNEL SELECT:** Push button to switch between Clean and Dirty channels. The LED indicates the active channel (Green for Clean, Red for Dirty).
- **CLEAN VOLUME:** Controls the output level of the Clean channel.
- **DIRTY GAIN:** Adjusts the amount of overdrive/distortion on the Dirty channel.
- **DIRTY VOLUME:** Controls the output level of the Dirty channel.
- **TREBLE:** Adjusts the high-frequency response.
- **MIDDLE:** Adjusts the mid-frequency response.
- **BASS:** Adjusts the low-frequency response.
- **REVERB:** Controls the level of the built-in digital reverb effect.
- **TUNER:** Activates the chromatic tuner. The display will show the note being played.
- **AUX IN:** 3.5mm stereo input for connecting external audio devices (e.g., MP3 player, phone) to play along with music.
- **PHONES (CabSim):** 3.5mm stereo output for headphones. This output features Orange's CabSim circuit, which emulates the sound of an Orange 4x12 speaker cabinet for silent practice or direct recording.

### Basic Operation:

1. **Power On:** After connecting your guitar and power, ensure all volume controls are set to minimum. Flip the power switch to 'ON'.

2. **Clean Channel:** Press the CHANNEL SELECT button until the green LED is lit. Slowly increase the CLEAN VOLUME to your desired level. Adjust TREBLE, MIDDLE, and BASS to shape your tone.
3. **Dirty Channel:** Press the CHANNEL SELECT button until the red LED is lit. Adjust DIRTY GAIN for the desired amount of distortion, then slowly increase DIRTY VOLUME. Use the EQ controls to fine-tune the sound.
4. **Using Reverb:** Turn the REVERB knob clockwise to increase the effect level.
5. **Using the Tuner:** Press the TUNER button. The amplifier's output will be muted, and the display will show the note. Tune your guitar until the display indicates the correct pitch. Press TUNER again to exit.
6. **Playing with External Audio:** Connect your audio device to the AUX IN jack. The audio will be mixed with your guitar signal.
7. **Silent Practice/Recording:** Connect headphones or a recording device to the PHONES (CabSim) output. The internal speaker will be muted.
8. **Power Off:** Turn all volume controls to minimum, then flip the power switch to 'OFF'. Disconnect the power cord.

## Maintenance

- **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 environment, away from extreme temperatures and direct sunlight.
- **Fuse Replacement:** If the amplifier does not power on, the fuse may need replacement. Disconnect the power cord completely. The fuse holder is located on the rear panel (refer to Figure 2). Use a small flat-head screwdriver to open the fuse holder. Replace the fuse with one of the exact same type and rating as indicated on the amplifier's rear panel (e.g., T630mA for 100V/120V, T315mA for 230V).

## Troubleshooting

Problem	Possible Cause	Solution
No power/No indicator lights	Power cord disconnected, faulty outlet, blown fuse.	Check power cord connection. Test outlet with another device. Replace fuse (see Maintenance).
No sound from speaker	Volume too low, guitar cable faulty, headphones connected, tuner active.	Increase volume. Test/replace guitar cable. Disconnect headphones. Deactivate tuner.
Distorted or weak sound	Incorrect gain/volume settings, faulty instrument cable, guitar issues.	Adjust gain and volume. Test/replace instrument cable. Check guitar's electronics.
Tuner not responding	Guitar not connected, low signal, faulty tuner button.	Ensure guitar is connected and playing clearly. Contact support if button is unresponsive.

## Specifications



Figure 4: Dimensions of the Orange Crush 20RT amplifier, showing height, width, and depth measurements.

Feature	Detail
Model	Crush20RT
Output Wattage	20 Watts
Speaker Size	8 inches
Channels	2 (Clean, Dirty)
Controls	Clean Volume, Dirty Gain, Dirty Volume, Treble, Middle, Bass, Reverb
Built-in Effects	Reverb
Additional Features	Chromatic Tuner, Aux In (3.5mm), Phones Out with CabSim (3.5mm)
Power Source	Corded Electric
Product Dimensions (L x W x H)	7.87 x 13.78 x 15.75 inches (20 x 35 x 40 cm)
Item Weight	15.65 pounds (7.1 kg)
Material	Metal chassis, Tolex covering

## Warranty Information

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Orange products are manufactured to high standards. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Orange Amplification website. Retain your proof of purchase for any warranty claims.

## Support

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For further assistance, technical support, or service inquiries, please visit the official Orange Amplification website or contact their customer service department. Contact information can typically be found on the manufacturer's website or in the product packaging.

Website: [www.orangeamps.com](http://www.orangeamps.com)