

# ORANGE #4 Jim Root Terror



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## THANK YOU!

Thank you for choosing Orange. You are now a member of the 'Legendary British Guitar Amplifier' owners club!

Since 1968 when the company was founded, Orange has been a pioneering force in the guitar amplification industry. Today, with a team of the world's finest amplifier engineers, Orange continues to push back the boundaries of conventional tube amplifier design.

Our commitment to craftsmanship and quality control has allowed our amplifiers to stand the test of time, giving their owners as much pleasure now, as the day they were bought. To maintain this level of excellence, each Orange amplifier is put through many rigorous test procedures before leaving the factory.

The warmth, tonal quality and rich harmonics generated by a valve amplifier cannot be reproduced by 'artificial' means. Many guitarists have reached the same conclusion: neither the transistor nor microchip is a suitable alternative to valve technology.

This booklet contains valuable technical and safety information. Please take the time to read this manual as the information may enhance the sound and performance of your amplifier. We are confident that you will be delighted with your new purchase and that it will provide you with many years of enjoyment.



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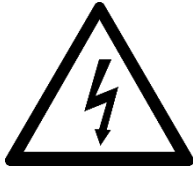
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## IMPORTANT SAFETY INFORMATION



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. Terminals labelled as "Speaker Outputs" must be connected to a speaker cabinet of the designated load rating using an un-shielded two conductor cable for speaker use at all times during operation



The exclamation point within an equilateral triangle and "WARNING" are intended to alert the user to the presence of important operating instructions. Failure to heed the instructions will result in severe injury or death.

- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near liquid.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



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- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Servicing: Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
- Refer all servicing to qualified service personnel.
- Damage Requiring Service: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: (a) When the power-supply cord or plug is damaged; (b) If liquid has been spilled, or objects have fallen into the product; (c) If the product has been exposed to rain or water; (d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation; (e) if the product has been dropped or damaged in any way; (f) when the product exhibits a distinct change in performance - this indicates a need for service.
- Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.



The voltage selector switch and mains fuse are factory set for the region in which your amplifier is intended to be sold. Do not tamper with this switch without express permission from Orange Music Electronic Company Ltd.



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Connect the supplied mains cord to the AC Mains Input on the amplifier to your AC mains wall outlet. This Class I electrical equipment must be earthed. The correct mains fuse value for your region are displayed on the unit, close to the AC Mains Input. Replace only with the same type and value. If the mains fuse repeatedly blows, contact your Orange dealer.

## EMI

To reduce the possibility of outside electrical interference during performance, operate your amplifier and instrument away from appliances/equipment that generate high levels of electronic/electromagnetic noise. This may include, but is not limited to: fluorescent lighting, refrigerators, motors, mobile phones, radios, computers etc.



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## BEFORE USING YOUR AMPLIFIER

### *Speakers*

Always ensure the correct speaker load ( $\Omega$ ) is connected to the **SPEAKER OUTPUT** terminal(s) at all times during operation. The speaker outputs are found on the rear of the amplifier. The minimum total load is  $8\Omega$ . **Only connect cabinets as described below.**

- 1 x  $16\Omega$  cabinet – Use the  $16\Omega$  speaker jack socket (Rear of chassis)
- 2 x  $16\Omega$  cabinets – Use both of the  $8\Omega$  speaker jack sockets (Rear of chassis)
- 1 x  $8\Omega$  cabinet – Use either of the  $8\Omega$  speaker jack sockets (Rear of chassis)

### **Note:**

- Never use instrument cable to make speaker connections.
- Use only quality, unshielded speaker cable.
- Speaker cabinets must have power handling at least equal to the amplifier's rated output power.
- Never use two cabinets of mismatched impedance ( $\Omega$ ).

### *Valves*

To prolong the lifespan of the valves installed in the amplifier, when switching on the power to the amplifier, set the 15WATT/STBY/7WATT selector switch to the middle position (STBY) for approximately 2 minutes. This places the amp in STBY mode (Startup Tension Bypass, historically known as 'standby' mode). This allows the valves to reach the correct temperature. After 2 minutes, switch to the PLAY position.





## FRONT PANEL FEATURES



**POWER:** Switches on the mains power to the amplifier. Refer to: 'Important Safety Instructions' & 'Before Using Your Amplifier'. The jewel lamp will illuminate when the power is switched on.



**OUTPUT (15 WATTS/STBY/7 WATTS):** Make sure that the 15 WATTS/STBY/7 WATTS output switch is in the STBY (middle) position before switching the power switch to the ON position. The output switch runs the valves at a low plate voltage (reducing

output power) in the 7 WATT position and at a higher plate voltage (increasing output power) in the 15 WATT position.



**INPUT:** Connect your instrument using good quality, shielded cable.

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## GAIN CONTROL.

The gain control adjusts the gain. High levels of gain will heavily overdrive the pre-amp. With the gain set to zero, no sound will be heard.

## BASS CONTROL

The Bass control adjusts the level of bass after the pre-amp stages and before the FX Loop.

## MIDDLE CONTROL

The Middle control adjusts the level of midrange after the pre-amp stages and before the FX Loop.

## TREBLE CONTROL

The Treble control adjusts the level of treble after the pre-amp stages and before the FX Loop.

## VOLUME CONTROL

The volume control adjusts the output volume. High levels of volume will heavily overdrive the output stage.

## REAR PANEL FEATURES



### **SPEAKER OUTPUTS (8 Ω, 8 Ω, 16 Ω)**

Please refer to “Using Your Amplifier”.



### **EFFECTS LOOP SEND AND RETURN JACK SOCKETS.**

The effects loop, send and return jack sockets are intended for use with outboard pedals or rack equipment such as delay, reverb and chorus etc.

Effects such as wah-wah, fuzz, distortion etc, would probably be best placed between the guitar and amplifier input.

The effects loop is wired in series with the pre-amp signal and is completely valve driven.



### **HT FUSE. (T250MA)**

Please contact a qualified service technician if this fuse fails!



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## VALVES AND FUSES CAN FAIL AT ANY TIME!

From time to time output and preamp valves may fail. The fuse on the rear labelled 'HT FUSE' will blow if any of the power amp/output stage valves fail. This helps to protect the rest of the circuitry.

We suggest that output valves are changed at least once a year. Orange amps are protected from damage caused by valve failure and inconsistent mains voltage by various fuses. We recommend that Orange users have a set of spare valves and fuses.

For more information on maintenance and for accessories and spares, please visit

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

## FREE EXTENDED WARRANTY OFFER

Orange amplifiers are under warranty for one year subject to consumer protection laws in the country of purchase and distributor's terms and conditions, an additional year can be added by registering.

Valves and speakers supplied with an Orange amp or purchased separately at our online store are covered for 90 days from the date of purchase.

The warranty status of any Orange product is subject to its being used for its intended purpose in suitable conditions. As the manufacturer we reserve the right to refuse to warranty any Orange product which has been misused in any way whatsoever.

REGISTER RIGHT NOW AT [www.orangeamps.com](http://www.orangeamps.com)

