

ORANGE™



Rockerverb 50/100 MKII Owners Manual

Orange Amplifiers
OMEC House
108 Ripon Way
Borehamwood
Hertfordshire
WD6 2JA
ENGLAND

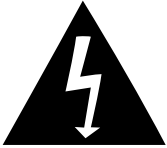
Tel: +44 20 8905 2828
Fax: +44 20 8905 2868
info@omec.com

Orange USA
2065 Peachtree Industrial Ct.
Suite 208
Atlanta, GA 30341
USA

Tel: 1-404-303-8196
Fax: 1-404-303-7176
info@orangeusa.com

ORANGE™

Before Operating Read These Important Safety Instructions



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may

be of sufficient magnitude to constitute a risk of electric shock to persons. Terminals labeled 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.

-
- Read these instructions.
 - 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.
 - 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.
 - **Service:** 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.



This Orange Amplifier conforms to UL Standard 60065 for Audio, Video and Similar Electronic Apparatus - Safety Requirements; Certified to CAN/CSA-C22.2 No. 60065-03; IEC 60065 2001 + A1:2005

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Contents

Warnings 1

Introduction 2

Front and Rear Panel Explanations..... 3

Using Your Amplifier 4

Warranty 5

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.

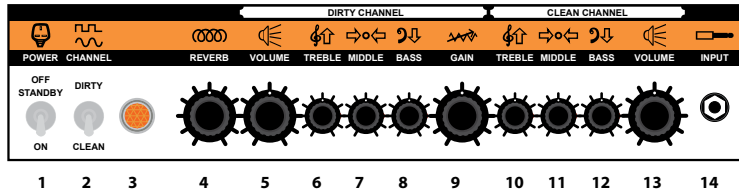
The warmth, tonal quality and rich harmonics generated by a valve amplifier cannot be reproduced by 'artificial' means. Many guitarists have reached the same conclusion: neither the transistor nor microchip is a suitable alternative to valve technology.

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.

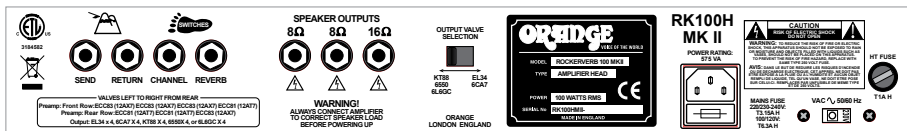
Please ensure your amplifier is switched to the correct voltage for your country. If unsure please consult your dealer.

Front Panel



- Power/Standby Switch** Power up the amplifier by switching the power, off/standby/on switch to the standby position and then switch to on, after 2 minutes.
- Channel Switch** The channel, clean/dirty switch, switches from the clean channel to the dirty channel, when there is no footswitch attached.
- Power Indicator Lamp**
- Reverb Control** Controls the Reverb level for both channels
- Volume Control** The volume control adjusts the output volume of the dirty channel. High levels of volume will heavily overdrive the output stage!
- Treble Control** The treble control adjusts the treble response of the dirty channel.
- Middle Control** The middle control adjusts the midrange response of the dirty channel.
- Bass Control** The bass control adjusts the bass response of the dirty channel.
- Gain Control** The gain control adjusts the gain of the dirty channel. High levels of gain will heavily overdrive the pre-amp and may sometimes be uncontrollable, especially when used at high volume levels! This will be more apparent when used as a combo!
- Treble Control** The treble control adjusts the treble response of the clean channel.
Note: When all three tone controls are set to zero, there will be no sound from the clean channel!
- Middle Control** The middle control adjusts midrange response of the clean channel.
- Bass Control** The bass control adjusts the bass response of the clean channel.
- Volume Control** The volume control adjusts the volume of the clean channel. High levels will overdrive the output stage in a vintage manner!
- Input Socket** For both channels

Rear Panel



- Send & Return Sockets** The effects loop, send and return jack sockets (rear of amplifier) are intended for use with outboard pedals or rack equipment such as delay, reverb and chorus etc. Effects such as 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!
- Channel Footswitch Socket** The footswitch jack socket (rear of amplifier) enables channel switching using any latching footswitch. Note: The footswitch will override the channel, clean/dirty switch.
- Reverb Footswitch Socket** Attaching an optional footswitch to this socket will allow you to remotely switch the reverb effect on and off.
- Speaker Outputs** When using a single Orange 16 ohm speaker cabinet, (i.e. PPC412 or PPC212), attach it to the 16 ohm output socket on your amplifier. When using two Orange 16 ohm speaker cabinets attach each one to a separate 8 ohm output socket on your amplifier. When using a single 8 ohm cabinet attach it to either one of the two 8 ohm output sockets on your amplifier.
WARNING: Never use two 8 ohm cabinets at the same time. When using a Rockerverb 50 combo with a 16 ohm extension speaker, disconnect the internal speaker from the 16 ohm socket and reconnect to one of the two 8 ohm sockets. Connect the extension speaker to the other 8 ohm socket.
WARNING: Orange Rockerverb amplifiers should not be used with 4 ohm speakers. Although both the Rockerverb 50 and 100 MKII come fitted and biased with EL34s, the output valve selection switch (rear of amplifier) allows for the use of other output valve types, such as 6L6s, 6550s and KT88s. Note: This switch only puts the amplifier bias in the region for the above listed valve types! Fine bias tuning for the actual set of output valves to be fitted, needs to be performed by a qualified service technician!
- Output Valve Selector** This is where your mains lead plugs in. Also the mains fuse is located here. T2Amp 220/230-240 VAC (T5Amp 100/120 VAC) on 50 watt model. T3.15Amp 220/230-240 VAC (T6.3Amp 100/120 VAC on 100 watt model. Switches amp between 220V and 240V or 100V and 120V. This should be set to the mains electricity voltage used in the country where the amplifier is to be operated. This is where your HT fuse is located. 2 x T500MA on 50 watt model. 1 x T1Amp on 100 watt model.
- Mains Socket & Fuse Holder**
- Mains Voltage Switch**
- HT Fuse Holder**

Please ensure your amplifier is switched to the correct voltage for your country. If unsure please consult your dealer.

Using Your Amplifier

IMPORTANT! Before connecting your amplifier to a power source, please check the following:

1. Ensure your speaker cabinet is connected to the correct impedance speaker output socket, (see Rear Panel, item 2), using a good quality speaker cable. **Do not use guitar leads.**
2. Ensure that the voltage selector switch is set to the correct mains voltage, (see Rear Panel, item 5).
When powering up your amplifier, switch to the ensure the 'Standby' position is set from the front panel and then switch the power on from the rear panel, two minutes before switching from 'Standby' to the 'On' position. (This will maximise the life of your valves).
If you are unsure about any of the above points please consult your local Orange supplier.

When powering on the amplifier make sure that the ON/STBY/OFF output switch is in the Standby (middle) position for at least one minute before switching the power switch to the ON position. (This will maximise the life of your valves).

If you are unsure about any of the above points please consult your local Orange supplier.

Using The Rockerverb 50/100

Using The Dirty Channel

This channel features five controls, Volume, Treble, Middle, Bass and Gain.

Using Clean Channel

This channel features four controls, Treble, Middle, Bass and Volume.

Using the Footswitch

Connect your Orange footswitch to either the Channel switch jack or the Reverb jack, (see Rear Panel, item).

Technical Specifications

	Rockerverb 50 Head MKII	Rockerverb 50 1 x 12 Combo MKII	Rockerverb 50 2 x 12 Combo MKII	Rockerverb 100 Head
Power	50 watts	50 watts	50 watts	100 watts
Channel Configuration	Clean / Dirty	Clean / Dirty	Clean / Dirty	Clean / Dirty
Speaker	-	1 X 12" Celestion Vintage 30	2 X 12" Celestion Vintage 30	-
Reverb	Valve Driven	Valve Driven	Valve Driven	Valve Driven
Footswitch Function	Channel / Reverb	Channel / Reverb	Channel / Reverb	Channel / Reverb
Interchangeable Power Valves**	Yes	Yes	Yes	Yes
Preamp Valves	4 X ECC83 / 12AX7	4 X ECC83 / 12AX7	4 X ECC83 / 12AX7	4 X ECC83 / 12AX7
Power Valves	2 X EL34	2 X EL34	2 X EL34	4 X EL34 / 6L6GC KT88 / 6550
Reverb Valves	3 X ECC81 / 12AT7	3 X ECC81 / 12AT7	3 X ECC81 / 12AT7	3 X ECC81 / 12AT7
Clean Channel Controls	Volume / Bass / Treble	Volume / Bass / Treble	Volume / Bass / Treble	Volume / Bass / Treble
Dirty Channel Controls	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble
Other Controls	Reverb	Reverb	Reverb	Reverb
Weight	23.5kg / 52lb	31kg / 70lb	38kg / 84lb	27kg / 60lb
Dimensions (mm)	550 X 280 X 255	500 X 300 X 533	660 X 300 X 533	550 X 280 X 255



WARNING

VALVES AND FUSES CAN FAIL AT ANY TIME!

From time to time output and preamp valves may fail. We suggest that output valves are changed at least once a year and that all class AB models (50 watts and above) will benefit from having the bias checked and adjusted. Bias checking must be carried out by a qualified engineer.

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

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.

REGISTER RIGHT NOW AT <http://WWW.ORANGEAMPS.COM/PRODUCT-WARRANTIES/>

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.