Manual V1.0

CRUSH BASS 50 MANUAL

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INTRODUCTION

THANK YOU FOR CHOOSING ORANGE

Ever since the founding of the company in 1968, **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 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.

This manual 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. You are now a member of the Legendary British Guitar Amplifier Owners Club!

In the interests of product improvement, the contents of this manual may be subject to change without notice. Ensure you are viewing the latest version at www.orangeamps.com

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SAFETY

IMPORTANT SAFETY INFORMATION

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects

have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

NO USER SERVICEABLE PARTS INSIDE. DO NOT ATTEMPT TO GAIN ACCESS TO THE INTERIOR OF THE PRODUCT. REFER ALL SERVICING TO AUTHORISED ORANGE SERVICE PERSONNEL

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.

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WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. For indoor use only. Do not place liquids, or objects containing liquids on or near the apparatus

Models which use a mains cord/plug to connect to the mains electricity supply must be connected to a mains socket outlet with a protective earthing connection. The voltage selector switch and mains fuse are set at the factory for the country or region in which this Orange product is intended to be sold. To prevent serious damage to the product, ensure that the rated AC mains voltage indicated on the product's rear panel agrees with the mains voltage from your AC mains outlet before connecting the mains cord/plug.

If the product is to be used outside of the factory set region, ensure the voltage selector switch (found on the rear or side panel) is set to the correct voltage for the new country/region and that the appropriate mains fuse is fitted in the pull-out fuse tray below the IEC mains input.

The correct mains fuse rating for your product is printed on the chassis. Use only the same 250V type and rating as specified for the product. Different operating voltages may require the use of different types of line cord and attachment plugs. If you are unsure, contact your Orange Dealer.

This Orange product fulfils the requirements of IEC 60065:2001 (Seventh Edition) + A1:2005 + A2:2010 for Audio, Video and Similar Electronic Apparatus.

This product complies with the WEEE Directive (2002/96/EC) marking requirement. This affixed product label indicates that you must not discard this electrical/electronic product in domestic household waste. Please contact your local authority for details of your nearest approved recycling facility.

This device complies with the Canadian Interference Regulations CAN ICES-3(B)/NMB-3(B).

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.
2. This device must accept any interference received, that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Orange Music Electronic Co. could void the user's authority to operate the equipment.

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PANEL FEATURES

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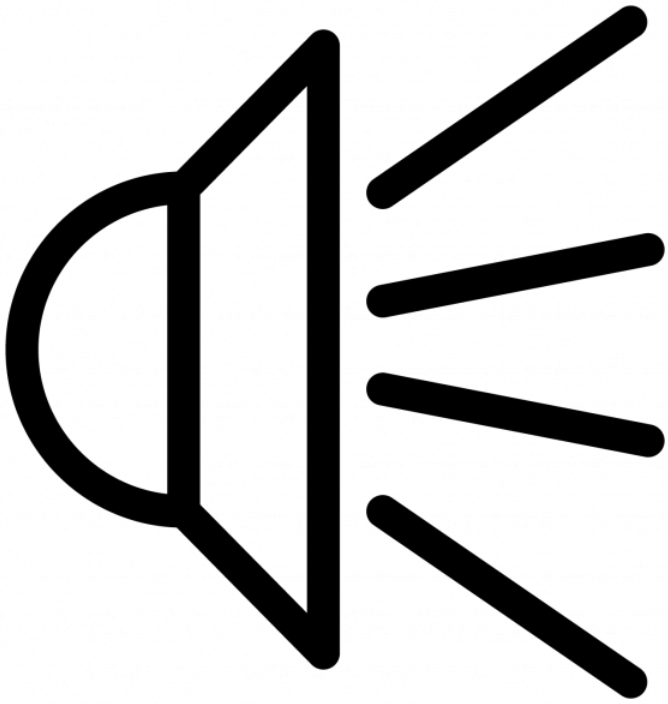

Volume

Controls the output volume level.

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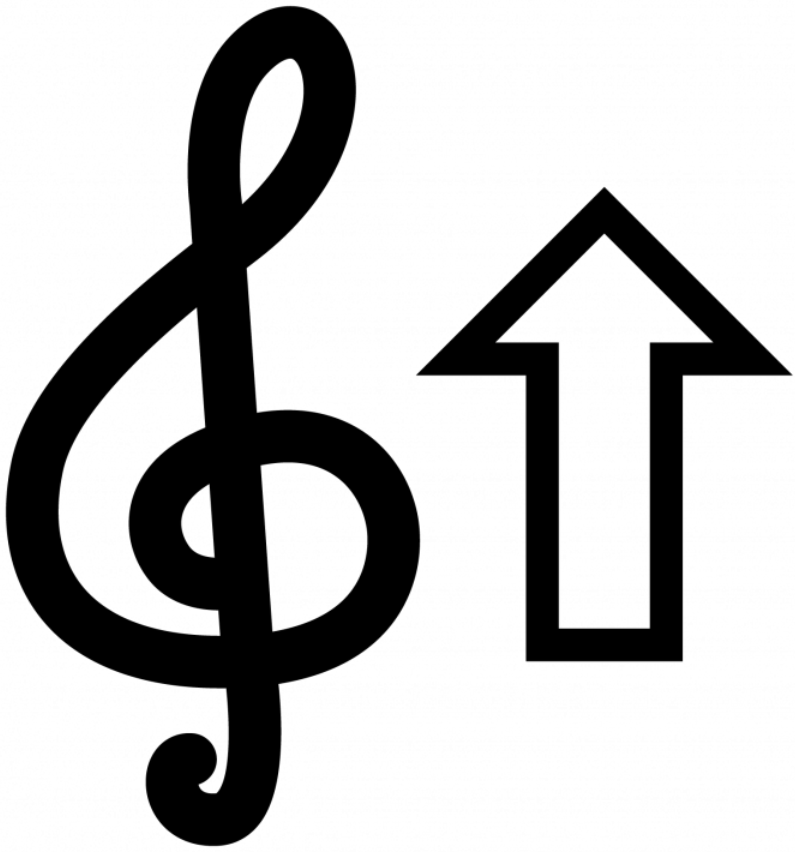

Treble

Adjusts the upper frequencies with up to 20dB of boost (max. setting) or cut (min. setting).

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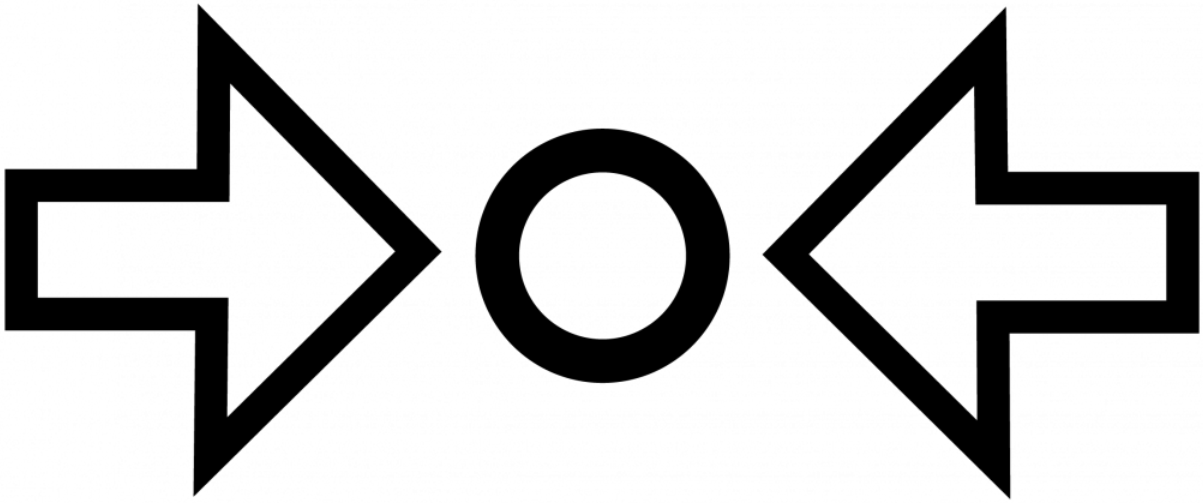

Middle

Controls the effect of the FREQ dial with up to 15dB of boost (max. setting) or cut (min. setting).

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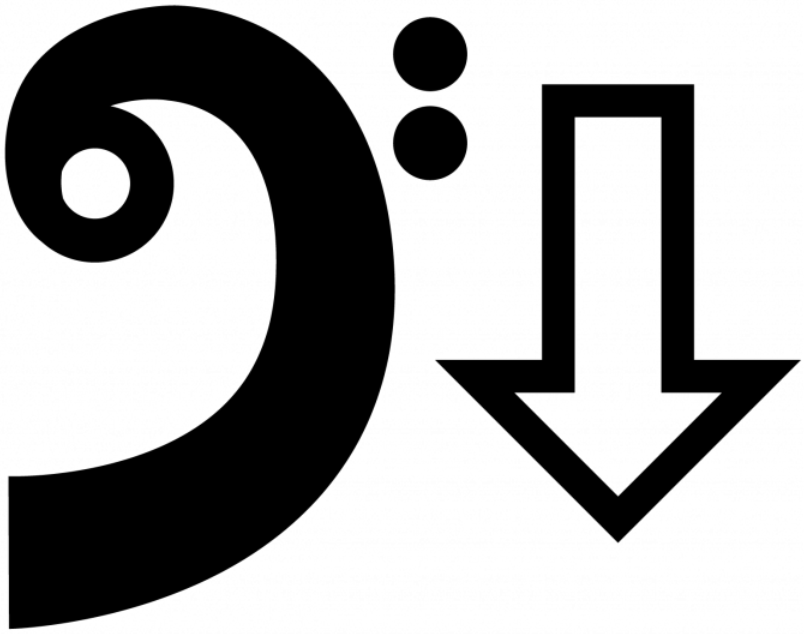

Bass

Adjusts the low-end frequencies with up to 15dB of boost (max. setting) or cut (min. setting).

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Gain

Controls the level of gain applied to the upper frequencies. Increasing the GAIN adds extra harmonics and, at higher
settings, heavy distortion. The GAIN control works together with the BLEND control.

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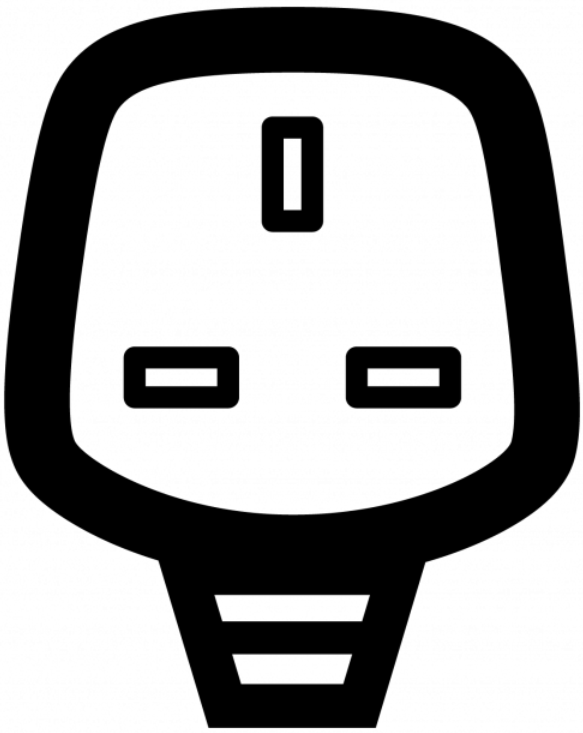

Power

Switches the mains power supply to the amplifier ON/OFF.

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Phones

For use with most stereo headphones with a 6.35mm connection. The PHONES output also features Cabsim for a
more authentic sound, and can be used to send a signal to a recording console/mixer. The internal speaker is
disconnected when the PHONES output is in use.
Note: To avoid possible hearing damage, do no use headphones at high volume levels for extended periods.

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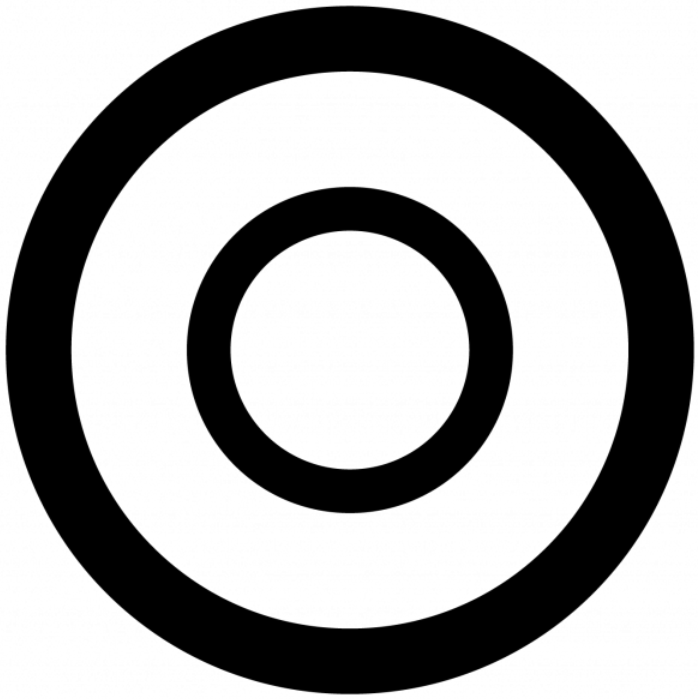

Aux In

For use with MP3 players, laptops etc. via a 3.5mm audio cable. The audio signal is internally summed to mono.

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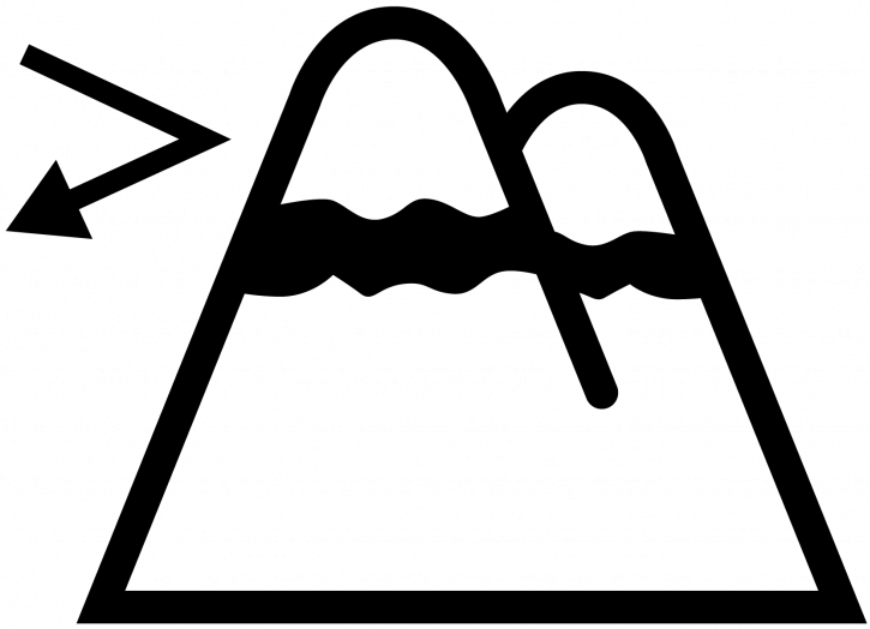

FX Loop

Use the FX LOOP to connect external effects processors/pedals inbetween the amp’s preamp and output stages.

Connect the SEND to the input of external effects. Connect the output of the external effects to the RETURN socket.

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Blend

Controls the amount of gain/upper harmonics blended with the clean signal. The character of the BLEND control is
defined by where the GAIN control is set. Higher BLEND settings will also add extra volume. With the GAIN set to
minimum, the BLEND control will have the least effect on the overall sound. The BLEND control is located before the
EQ controls in the signal path.

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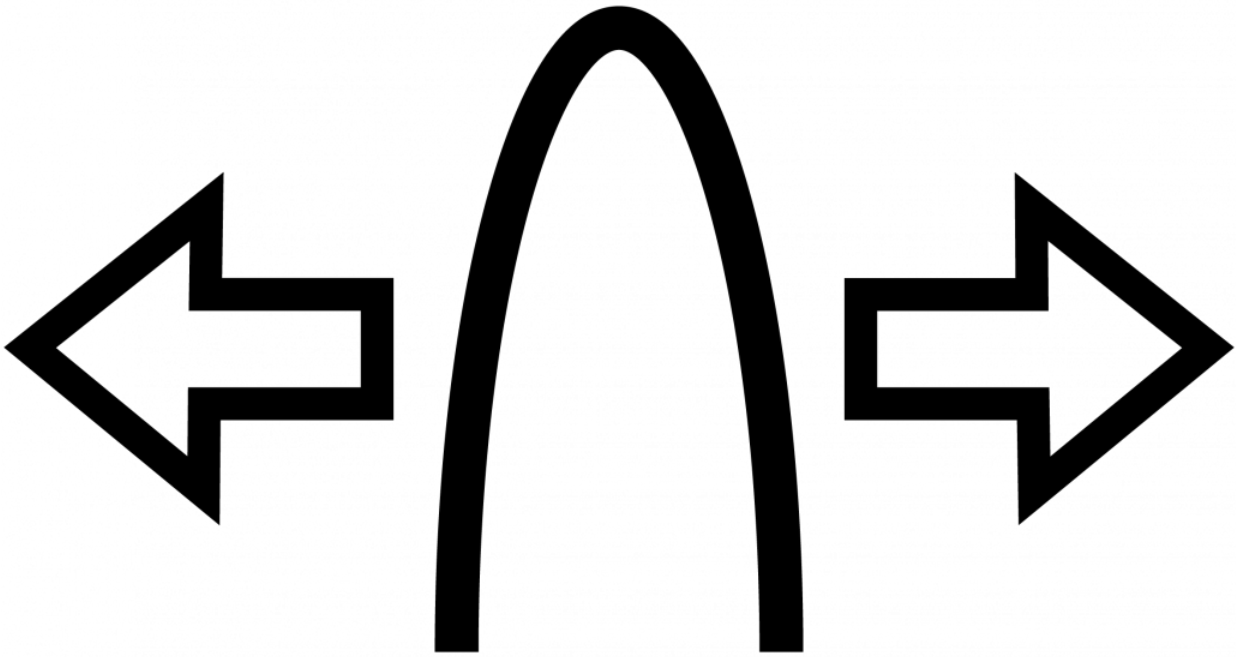

Freq

Selects the centre frequency of the MIDDLE control, sweeping from 300Hz (min.) to 2.7kHz (max.).
Note: When the MIDDLE control is in the centre (12 o'clock position), moving the FREQ control will have no audible effect.

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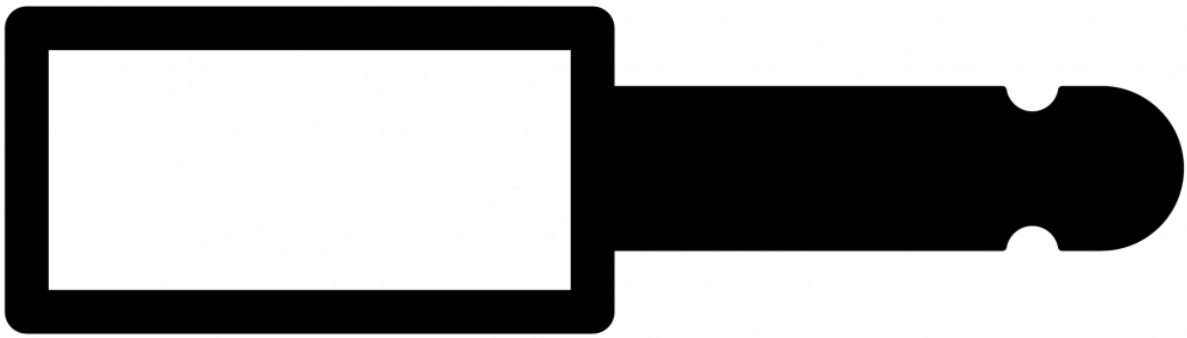

Input

Use a quality shielded instrument cable to connect your instrument to the INPUT jack socket.
The PAD switch selects the correct input level for basses with active or passive pickups. PAD engaged = -6dB.

Tuner

Depress the ON/OFF button to engage the integrated chromatic **Tuner**.

*Set the **Volume** to zero for silent tuning if required.*

The appropriate red LED will illuminate on the display to indicate the note being played. If the green **#** LED also illuminates, this indicates a chromatic note, e.g. F Sharp (F#).

The **>** arrow LED indicates the note is tuned too **low** in pitch.

The **<** arrow LED indicates the note is tuned too **high** in pitch.

Adjust the string's pitch in the direction shown by the arrows until the green **OK** LED lit.

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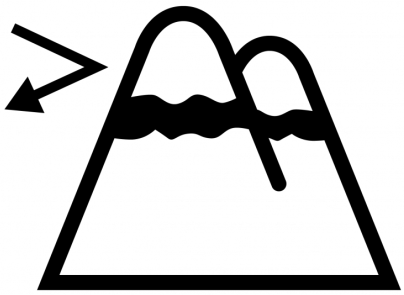

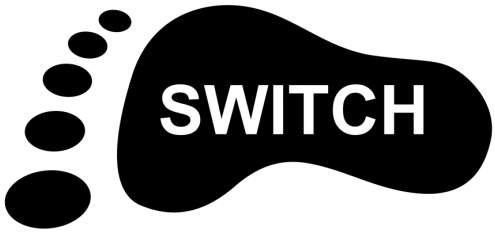

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FX Loop

Use the FX LOOP to connect external effects processors/pedals inbetween the amp's preamp and output stages.
Connect the SEND to the input of external effects. Connect the output of the external effects to the RETURN socket.

Footswitch

Connect a latching footswitch (e.g. Orange FS-1) to remotely engage/defeat the BLEND/GAIN controls.

1. AC Mains Inlet

Refer to '**Before Using Your Amplifier**'.
Connect the supplied IEC cable to the AC Mains Inlet. Ensure the Power switch is set to OFF before connecting the IEC cable.

2 Mains Fuse

The mains fuse is located in the pull-out tray underneath the AC Mains Input. If the mains fuse blows, replace **only** with the exact rating for your region . If the mains fuse continues to blow contact your **Orange** dealer.

100V/120V: T2A
230V: T1A

3. Voltage Selector Switch

IMPORTANT!

Refer to '**Before Using Your Amplifier**'.

Factory set to the region in which the amplifier is intended to be sold.

4. Power Switch

Ensure the amp's volume controls are set to zero before switching on power to the amplifier. Switch off when not in use.

RELATED ACCESSORIES

These items are compatible with your Orange product. For customers in the USA please click here.

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