

ORANGE™

AMPLIFICATION

ACOUSTIC PRE OWNER'S MANUAL



London | England

DESIGNED AND ENGINEERED BY ORANGE MUSIC ELECTRONIC COMPANY LTD.
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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 valve 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 the microchip is a true alternative to valve technology.

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

IMPORTANT SAFETY INSTRUCTIONS

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 a 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. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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.



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

This equipment should be used under the supervision of an adult at all times.



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 (Ω) rating using an un-shielded two conductor cable for speaker use at all times during operation.



The "Caution, hot surface" symbol indicates that the marked item may be hot.

Do not cover or block ventilation openings. Ensure the apparatus is installed with plenty of space around the unit (> 6"/12.5cm) as this apparatus may generate heat under normal use. This equipment is not intended to be used on soft support (like beddings, blankets etc.). This equipment should always be placed on a flat, stable surface.



To reduce the risk of fire and electric shock do not expose this apparatus to rain or moisture. For indoor use only. Do not use in damp environments, e.g. bathrooms etc.



Do not place objects containing liquids on, or near the product. Do not operate this apparatus or connect/disconnect a power plug whilst hands are wet.



Do not attempt to gain access to the interior of the product. No user serviceable parts inside. Refer all servicing to qualified servicing personnel.



Where indicated or stated on the product/unit:

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.

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.

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

For customers in Canada: Where indicated or stated on the product/unit: This Class B digital apparatus complies with Canadian Interference Regulations CAN ICES-3(B)/NMB-3(B).



This symbol indicates this product is classified as Waste Electrical and Electronic Equipment (WEEE) in the European Union and should not be discarded with household waste. Contact your local authority for more information and details of your nearest approved disposal facility.



This Orange Amplifier conforms to EN 60665:2014 for Audio, Video and Similar Electronic Apparatus - Safety Requirements. EN50581: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances. EN 61000-6-3:2007 Electromagnetic compatibility. 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.

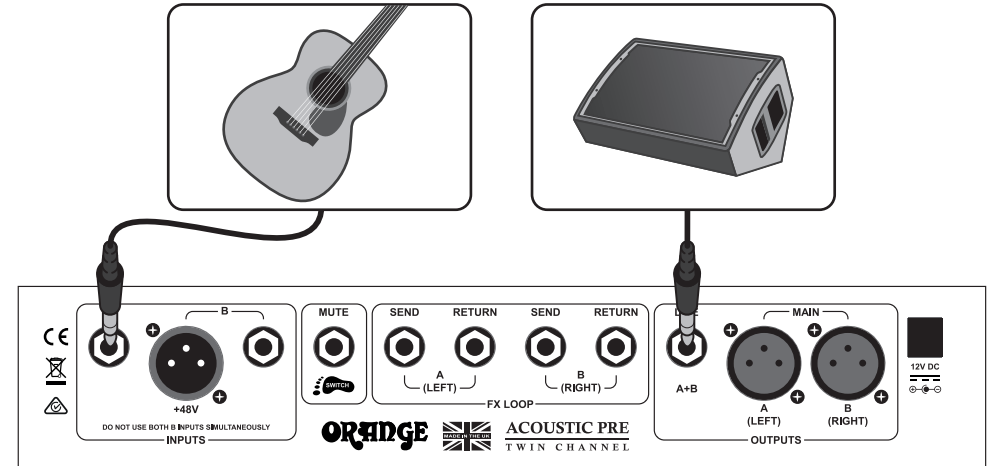
MONO INPUT - MONO OUTPUT

START UP PROCEDURE

Wait for the light to finish flashing prior to switching on speakers or make sure appliances are muted.

Connect a single pickup guitar to Channel A for shimmering harmonics & subtle compression. Alternatively, use Channel B for an uncoloured, flat response.

For a simple, mono stage setup, connect the Line Output jack to a powered monitor. Adjust the level with the Line Volume control.

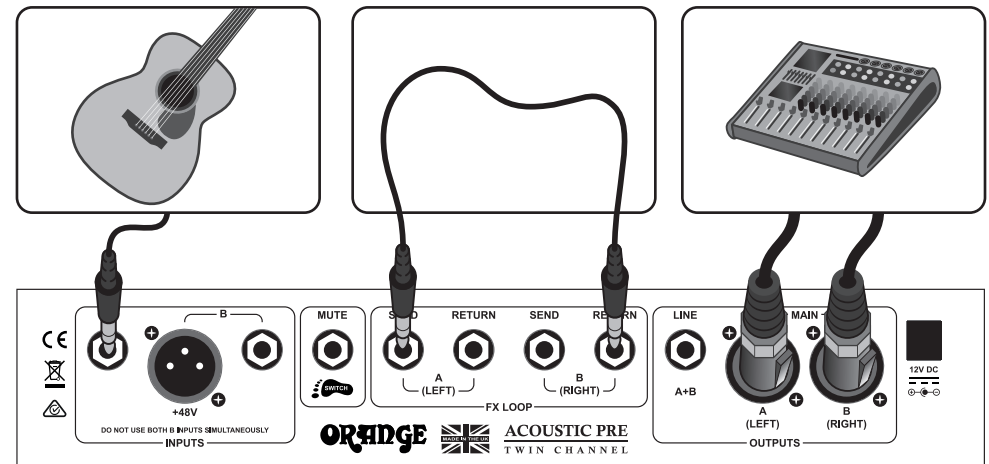


MONO INPUT - STEREO OUTPUT

Connect a single pickup guitar to Channel A for shimmering harmonics and subtle compression. Alternatively, use Channel B for an uncoloured, flat response.

Using a patch lead to 'jumper' FX Send A to FX Return B routes Channel A's signal to both outputs. This also allows the on-board Reverb to run in stereo.

Individual Balanced XLR Outputs for each channel connect to your P.A. mixing console or recording interface for total control over your mix.

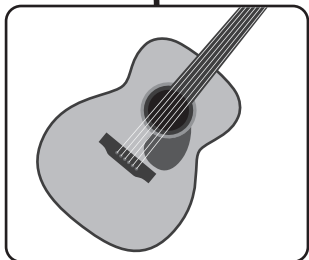
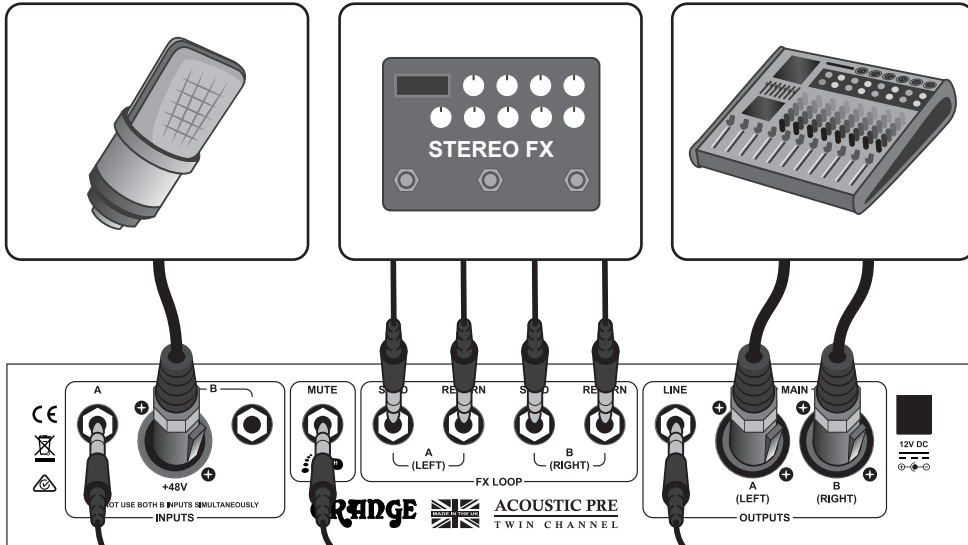


GUITAR + MICROPHONE - STEREO OUTPUTS

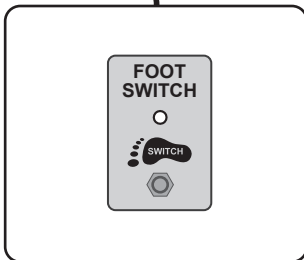
Connect an external microphone to Channel B's XLR input. +48V Phantom Power is provided for condenser microphones.

Run stereo FX by connecting FX Loop A to your FX unit's Left In/Out and FX Loop B to your FX unit's Right In/Out.

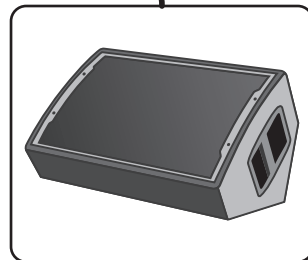
Individual Balanced XLR Outputs for each channel connect to your P.A. mixing console or recording interface for total control over your mix.



Connect your guitar's internal pickup and blend with an external microphone for a studio-quality live sound or an all-in-one recording preamp.



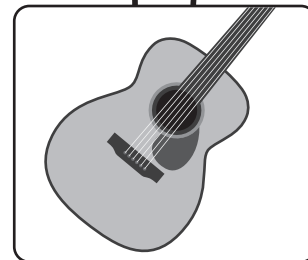
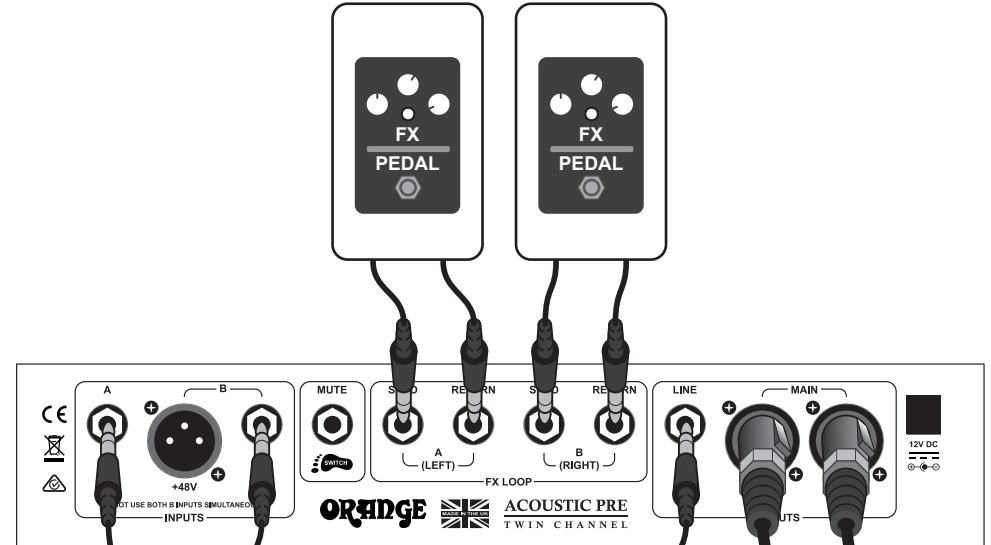
Mute with an external footswitch. This cuts the signal at the FX Send (loop pedals and delay tails keep playing). Power light turns red to indicate that the unit is muted.



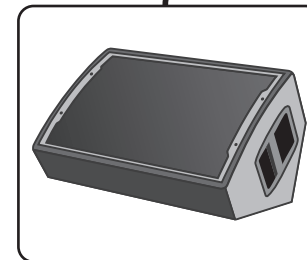
Connect the mono Line Output jack to a powered monitor. This is a blend of both channels with an independent level control for a separate stage mix.

2 GUITAR SOURCES - STEREO OUTPUTS

Use the two separate FX Loops to connect two totally independent FX chains. Process your two sound sources individually for limitless tonal options.



Connect a guitar with 2 internal sound sources to the Input jacks of both channels. Tailor each part of your sound individually, with the ability to correct phase problems.



Connect the mono Line Output jack to a powered monitor. This is a blend of both channels with an independent level control for a separate stage mix.

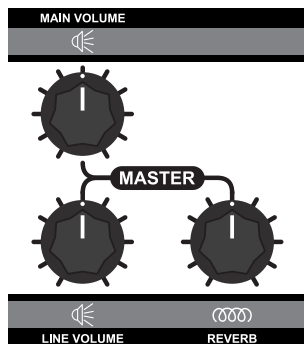


Individual Balanced XLR Outputs for each channel connect to your P.A. mixing console or recording interface for total control over your mix.

FRONT PANEL FEATURES

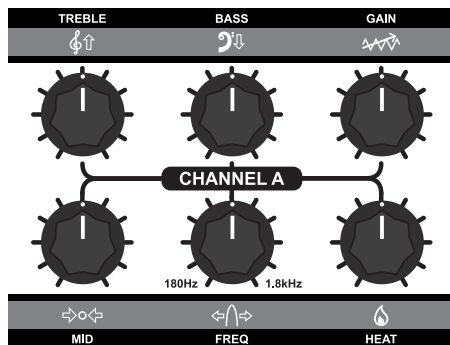
MASTER

- MAIN VOL** Controls the output level of the balanced XLR outputs.
- LINE VOL** Controls the output level of the unbalanced mono line output.
- REVERB** Controls the level of the onboard digital reverb.



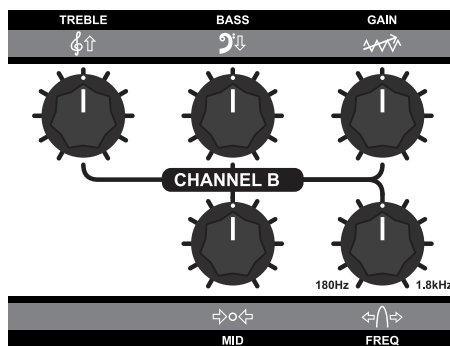
CHANNEL A

- TREBLE** Adjusts the high shelf +18dB above 680 hZ.
- BASS** Adjusts the low shelf +/- 12dB below 680 hZ.
- GAIN** Adjusts the input level to Channel A.
- MIDDLE** Adjusts the frequency selected by the Freq control by +/- 18 dB.
- FREQ** Selects the centre frequency for the mid control (180Hz – 1.8kHz).
- HEAT** Alters the level of valve gain in the upper frequencies adding harmonics and compression.

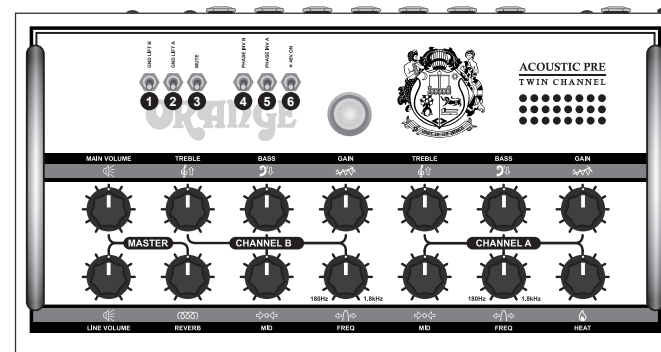


CHANNEL B

- TREBLE** Adjusts the high shelf +/- 9dB above 680 hZ.
- BASS** Adjusts the low shelf +/- 12dB below 680 hZ.
- GAIN** Adjusts the input level to Channel B.
- MIDDLE** Adjusts the frequency selected by the Freq control by +/- 18 dB.
- FREQ** Selects the centre frequency for the mid control (180Hz – 1.8kHz).

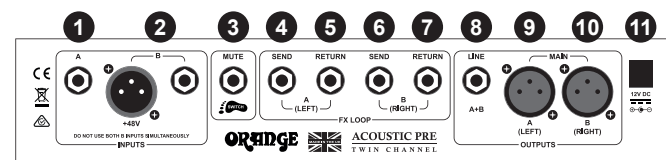


FRONT PANEL SWITCHES



- +48V ON** 1 Activates 48V phantom power on channel B's XLR input
- PHASE INV A** 2 Inverts the phase of channel A
- PHASE INV B** 3 Inverts the phase of channel B
- MUTE** 4 Mutes both channels at the FX loop send (Delay trails and loop pedals will still be audible)
- GND LIFT A** 5 Lifts the ground of channel A's output XLR
- GND LIFT B** 6 Lifts the ground of channel B's output XLR

REAR PANEL FEATURES



- Input A** 1 1/4" Jack input to Channel A
- Input B** 2 1/4" Jack and XLR inputs to Channel B (not to be used simultaneously)
- Mute Footswitch** 3 Allows the mute function to be controlled by a latching footswitch
- FX Loop Send A** 4 Connects Channel A to the input of an effects unit
- FX Loop Return A** 5 Connects the output of an effects unit to Channel A output
- FX Loop Send B** 6 Connects Channel B to the input of an effects unit
- FX Loop Return B** 7 Connects the output of an effects unit to Channel B output
- Line output** 8 Mixes both channels to a mono unbalanced 1/4" output Jack
- Main Output A** 9 Individual balanced XLR output for Channel A
- Main Output B** 10 Individual balanced XLR output for Channel B
- 12V DC 2.1mm DC** 11 Jack for connecting the supplied 12VDC centre negative power supply

SPECIFICATIONS

Channel A input impedance	2.2 M Ω
Channel B XLR input impedance	Minimum 6 K Ω
Channel B jack input impedance	2.2 M Ω
FX send level	-10 dBu
FX send impedance	< 150 Ω
FX Return level	-10dBu
FX return impedance	10 K Ω
Line output level	-10dBu
Line output impedance	< 150 Ω
Main output level	+4dBu
Main output impedance	< 60 Ω
Power supply	12V dc Centre Negative
Current draw	750 mA
Dimensions	29cm x 15cm x 9cm
Weight	2.5kg
Maximum ambient temperature	40 ^o

