ROKSAN

MANUAL

K3 POWER AMPLIFIER

Congratulations on your purchase of the ROKSAN K3 Power Amplifier. This Power Amplifier is designed and manufactured to the highest specification and rigorously tested to reward you with many years of listening pleasure. Your K3 Power Amplifier is an integral part of your system. Its correct installation, set-up and operation will have a significant influence on the performance of the entire hi-fi installation. Please read the contents of this manual thoroughly. It will help you to understand your hi-fi equipment better and further enhance your listening pleasure.

UNPACKING

Included in the packing of your K3 Power Amplifier you will find:
One mains lead fitted with the correct mains power plug for your country.
After removing this item please retain all packing material. Correct packing is necessary for future transportation of your K3 Power Amplifier.

MAINTENANCE

After disconnecting the K3 Power Amplifier from the mains supply, the cabinet and front panel may be cleaned with a lightly dampened soft cloth or chamois leather. Avoid using abrasive substances or solvents.

EU DIRECTIVES

This product is designed to comply with the legal provisions of EU Directives 89/3336/EC and 72/23/EC. The standards which have been applied are those which were in force at the time of the introduction of this product. This product bears the CE mark. This product must be earthed. Please ensure that other equipment connected to it is earthed according to the manufacturer's instructions.

CAUTIONS
AC MAINS SUPPLY

Your K3 Power Amplifier is set to operate from a fixed supply voltage which is marked on a label next to the mains input plug. Before connecting the mains lead please check that your mains supply corresponds to the label as below:
230V Products: Voltage Range 220V – 240V
115V Products: Voltage Range: 110V – 120V
100V Products : Voltage Range: 90V – 110V

The mains lead supplied with this product has an IEC mains socket which plugs into the IEC connector on the unit's rear panel. The other end is normally attached to the appropriate mains plug for your country. In the UK this is the standard UK13A plug.
This plug should ordinarily not be removed from the lead. If you do remove it, please dispose of it safely so that it cannot be plugged into a mains socket whilst in a potentially dangerous condition. We suggest that you obtain from your dealer a complete set of replacement leads. Should you move to another area where either the mains voltage or the mains plug are different from those as supplied with your Integrated Amplifier, please contact the appointed ROKSAN distributor for assistance.

Please observe correct mains polarity at all times.
The Power Amplifier mains fuse is located on the rear panel next to the IEC mains connector. This must only be replaced by the fuse of the type and rating as described on the fuse rating label on the rear panel of the unit.

This product requires connection to earth (ground). The earth wire (in the UK this is colour coded green/yellow) of the mains cable supplied with your Integrated Amplifier must be connected to a suitable earthing point established for this purpose by your electricity supply company. If you are in any doubt, consult a qualified electrician.

If the equipment is likely to be unattended for some time, unplug it from the mains supply.

GENERAL CAUTIONS
FCC WARNING

This equipment may generate or use Radio Frequency energy. The user may lose the right to operate this equipment if unauthorised modifications are made.

INTERFERENCE

Properly installed, this unit should not cause harmful interference to radio communications. There is, however, no guarantee that such interference will not occur in a specific installation. If interference arises (which you can determine by switching the unit off and on) you could try to remedy matters by using the following methods:
Re-orient or re-locate the receiving antenna.
Increase the distance between the K3 Power Amplifier and receiver.
Connect the unit to a different mains circuit from that of the receiver.
Consult your ROKSAN appointed dealer or an experienced Radio/TV technician for help and advice.

LOCATION

Your K3 Power Amplifier should be located in a well ventilated area and kept away from sources of heat, dust and humidity and from direct sunlight.

The Power Amplifier may be positioned either as a free standing unit or along side another audio/video product. Never allow liquids or other objects to fall into the unit.

This unit contains no user serviceable parts. DO NOT remove any panels or attempt to service it yourself. Unauthorised servicing will void the warranty.

INSTALLATION

1. AC mains power on/off
2. Mode indicator

3. XLR stereo input
4. Input/output selector switch
5. Chassis ground terminal
6. RCA stereo input
7. RCA stereo output
8. XLR stereo output
9. Right speaker output
10. Left speaker output
11. AC mains input
12. AC mains fuse holder
13. Voltage & fuse label

SET-UP

CONNECTING MAINS POWER

Please refer to the front & rear panel view on Page 4. The moulded IEC connector of the supplied mains lead should be plugged into the socket (7) on the rear of the unit first and then plugged into the mains supply. The Mains power switch (2) is on the front underside of the Stereo Power Amplifier. This switch can be left on; if however the amplifier is likely to be unattended for a long period, switch it off and unplug the mains lead from the wall.

All the inputs use Gold plated RCA Phono Connectors and should be connected according to the standard convention – **Right Channel – Red; Left Channel – Black or White.**

Also in accordance with standard practice, the Upper row of Phono Sockets carries the Left Channel and the Lower row carries the Right Channel.

INPUT CONNECTIONS

If you wish to use the amplifier for multi-amping with the K3 Integrated or purely as a pre/power combination (with the K3 Integrated acting as the preamplifier), you should connect the pre out of your K3 Integrated (or pre-amplifier or surround sound processor) to the corresponding input. The gain of the K3 Stereo Power Amplifier is exactly the same as the power amplifier section of the K3 Integrated Amplifier and therefore is ideal for Multi-amping (Bi-amping, Tri-amping etc.)

You have the choice between RCA and XLR inputs/outputs. Use selector switch (4) to select the desired cable configuration. Please note that the circuits run in parallel, so input and output must be the same cable type.

IMPORTANT NOTE: For optimum performance it is recommended to use high quality interconnect cable such as ROKSAN HDC-03 A High Definition Analogue Cable.

LOUDSPEAKER CONNECTIONS

The Right and Left loudspeakers are connected to the amplifier via the rear panel binding posts respectively.

IMPORTANT NOTE: For optimum performance it is recommended to use high quality interconnect cables such as ROKSAN HDC-02A high definition analogue Cable.
IMPORTANT NOTE: It is always better to use the straight inputs when there are no requirements for level adjustment.

Carefully observe polarity ensuring that the RED (+) speaker terminal is connected to the RED (+) amplifier terminal and the BLACK (-) speaker terminal to the BLACK (-) amplifier terminal. When all the channels are connected to their respective speakers the amplifier is ready for use.

MULTI-AMPING THE LOUDSPEAKERS

If the Loudspeakers utilise more than one drive unit with individual input terminals, for example a Tweeter and a Woofer, then the loudspeaker performance will greatly benefit from bi-amping. Dedicating one amplifier to the Tweeter and another to the Woofer isolates them from each other hence reducing distortion and increasing reserved power, creating more headroom and drive. Speakers work far better with most amplifiers when multi-amped than using one yet more powerful amplifier. NOTE: Drive unit links MUST be removed from the rear terminals of the loudspeaker before multi-amping.

OPERATION

Please refer to the front and rear panel views

Switching On

The Mains power switch (1) is on the front left underside of the K3 Stereo Power Amplifier. This switch should be left ON for normal operation. If unattended for a long period, the Mains power should be switched OFF and the lead disconnected from the power supply.

When switched, your K3 Stereo Power Amplifier will go to 'Sleep/Warm-up' mode and the MODE indicator light (2) on the front will glow GREEN. The amplifier is now ready for use.

1. If there is no signal (or the signal level is extremely low) the MODE indicator light will stay GREEN and the amplifier will be in warm-up mode. The exception to this is the initial start up, if the unit has been off for a long period of time.
2. When there is signal, the input sensor will 'wake up' the amplifier and the MODE indicator light will change to RED.
3. After approximately 5 seconds (Allowing the signal to settle down) the Output Relays will turn on and the amplifier will be fully operational.
4. If there is still no signal after approximately 30 minutes, the amplifier will revert to Sleep/ Warm-up mode and the MODE indicator light will glow GREEN.
5. As soon as there is a signal the K3 Power Amplifier will 'wake up', the MODE indicator light will glow RED and after approximately 5 seconds the outputs will be activated again.

TROUBLESHOOTING

If you suspect that your ROKSAN K3 Power Amplifier is not operating properly, you should check all the connections carefully. Pay particular attention to speaker phasing and channel connections. Phono plugs should be fully inserted- a frequent cause of problems is that Phono plug surrounds do not make proper contact. Below are some commonly encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your appointed ROKSAN dealer or distributor.

Symptom	Likely Cause	Suggested Remedy
Excessive hum	Connection loose, cable faulty	Re-connect plugs, change cables
One channel inoperative	Interconnect or amplifier faulty	Change lead, try alternative line input or amplifier
No sound	Incorrect input selection	Use switch to select correct input

GUARANTEE

Your ROKSAN Product is guaranteed against any defect in materials and workmanship for a period of five years from the date of purchase.

This guarantee only becomes effective once your product has been registered within fourteen days of purchase. Roksan reserves the right to ask for a copy of your purchase invoice.

This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.
All claims under this warranty must be made through an authorised ROKSAN retailer. If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification, ROKSAN reserves the right to make a charge for examination and return carriage. Unauthorised servicing will void this guarantee. Warranty will only be valid when the product is bought through the authorised retailer. All the warranty issues will be dealt through the selling retailer.

Warranty registration can be done online at:
http://www.roksan.co.uk/rw.php

SPECIFICATIONS

Inputs	RCA (L&R)
Impedance	23 kΩ
Input Sensitivity	900mV
Outputs	Speaker L & R (x1)
Output Power	(140W)
Power Supply	500VA Ultra Low Noise Toroidal Transformer
Frequency response	<3Hz – >100kHz
Gain	>110 (8Ω) (-3dB),
Signal to Noise Ratio	100dBa (ref. 900mV)
Weight	15kg

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