



## **OPERATING INSTRUCTIONS FOR THE CREEK A42**

Thank you for purchasing the **A42 Power amplifier**. You are now in possession of a State of the Art Power Amplifier. The functions and operation of the **A42** are extremely simple. However, the following notes are provided to explain all aspects of its design and use.

### **MAINS CONNECTION**

When unpacking the amplifier please keep the packing material in a safe place for possible future use. In the pack there is a separate mains cable suitable for connecting to the mains supply in the country of use. The IEC socket end of the cable should be firmly inserted into the connector on the rear panel marked "Mains Input". Remember, do not overload the mains wall socket with too many plugs or adapters. The high quality performance of the amplifier will be impaired if the electrical supply to it is in poor condition. If in doubt, consult a qualified electrician or your dealer. The "Mains Input" connection is also fitted with a fuse, specifically suited to the supply voltage of the country of use. The correct value is clearly marked on the rear panel next to the Mains Input. Should it be necessary to replace the fuse, ensure that you use the same type as specified on the rear panel. i.e. 5 x 20mm cartridge type **T 2Amp surge resisting for 220-240V 50Hz AC, T 4Amp surge resisting for 110-120V 60Hz AC.**

### **LOUDSPEAKER CONNECTIONS**

The loudspeakers should be connected using a suitable pair of cables designed specifically for audio use. These should be fitted with dedicated **4mm plugs** which can be screwed, but are preferably soldered, onto the cables. Please consult your dealer for advice if you are unsure. It is **very important** to connect the loudspeakers to the loudspeaker sockets in the correct phase. That is to say that the positive and negative sides of the cable are connected to the loudspeaker in the same way on each channel. If it is connected out of phase a severe loss of bass performance and a spreading of the stereo image will result. It is recommended not to use loudspeakers of less than 4Ω resistance or more than two pairs of 8Ω speakers running from the amplifier at one time. However, bi-wiring of one pair of speakers, using the four sockets, can improve the sound of your system (consult your dealer for more details). It doesn't matter which output sockets (**LS1 or LS 2**) are used on the back of the amplifier as they are both connected to one source in the amplifier.

If the amplifier is to be used in a **Bridged Mono** (balanced) configuration, a **P42** pre-amplifier with the appropriate driver board and a further **A42** amplifier will be required. Each amplifier should be wired to drive one loudspeaker only (left or right). The major difference in the wiring of a balanced system is that the loudspeakers are not connected to ground. The loudspeaker wires should be connected between the live connections of the left and right outputs of **LS1 or LS2** on the rear of the amplifier. Phasing of the leads is still important and therefore if the positive (marked) wire is connected to the bottom connector on one channel (**Right**) it should be wired the same connector on the other channel. Bi-Wiring is still possible, but it is not advisable to connect more than one 8Ω speaker to a Bridged (balanced) **A42** at a time as it will overheat and could possibly damage the amplifier. Do not connect the negative loudspeaker wire to any ground connector or the bridging mode will be defeated.

**N.B. It is very important not to short the loudspeaker cables together when the other ends are still connected to the amplifier otherwise permanent damage can result. If it is necessary to move or change the location of your loudspeakers, make sure that you switch off the amplifier from the mains first.**

### **INPUT CONNECTION**

The input sensitivity of the Power amplifier is 530mV's. Connection is made via the two **RCA Phono (Cinch)** type sockets on the rear panel marked - **INPUT**, which are wired in un-balanced mode.

If a **Bridged Mono** application is required, it is necessary to use both left and right inputs as a form of balanced mono input, carrying high and low signal. Read specific instructions accompanying the plug-in bridging board, which plugs into the **P42** Pre-amplifier.

### **POWER SUPPLY CONNECTION TO CREEK P42 PRE-AMPLIFIER**

If you choose to use the **A42** Power amplifier with the **P42** Pre-amplifier, it is possible to supply the power to the **P42** via an umbilical interconnect that supplies **+30 & -30V's DC**. The appropriate interconnect will be supplied with the **P42**. The interconnect should be plugged into the power supply socket and the respective socket on the Pre-amplifier. This connection must only be used to power the **Creek P42** Pre-amplifier.

### **OPERATING THE A42**

Make sure that the unit is on a suitable table or Hi-Fi equipment cabinet. It is important to allow adequate ventilation to the heatsink, in the centre of the unit. Avoid obstruction of the ventilation slots on the top cover. It may be necessary to place the amplifier on the top of other equipment to allow for this. To switch - on the unit press the switch marked **POWER** on the right hand side of the front panel. To protect the loudspeakers connected to the amplifier from dangerous DC voltages, an internal 10 Amp relay switches off the outputs on switch-on and in the case of a failure etc. A delay of about 3 seconds will be noticed initially and the turn-off should be instantaneous. To indicate the state of the amplifier, the **POWER** LED indicator, when the amplifier is first switched on, should glow less brightly than when the Amplifier reaches operating condition, at which time the relay will drop in and the LED will switch to full brightness. If a fault condition is noticed the relay will switch both speaker outputs off and the **POWER** indicator will switch to low brightness.

### **SPECIFICATION**

POWER OUTPUT	ONE CHANNEL	55 Watts into 8Ω
POWER OUTPUT	BOTH CHANNELS	50 Watts into 8Ω
POWER OUTPUT	ONE CHANNEL Ⓢ	75 Watts into 4Ω

Ⓢ - NOT RECOMMENDED FOR USE INTO MORE THAN ONE PAIR OF 4Ω LOUDSPEAKERS

POWER OUTPUT                      BRIDGED MONO \* (not suitable for use into less than 8Ω) 150 Watts into 8Ω

\* - Bridged operation can only be enabled by use of the appropriate driver board in the P42 pre-amplifier

TOTAL HARMONIC DISTORTION	<0.03% 20 Hz to 20 kHz
FREQUENCY RESPONSE	3 Hz to 25 kHz -1 dB
INPUT SENSITIVITY	450mV's @ 50Watts
POWER AMP RISE TIME	40V's per μS
SIGNAL TO NOISE RATIO	-105 dB's
SEPARATION	-80 dB's at 1 kHz
POWER CONSUMPTION	45 W at idle
"                      "                      "	220 W full power 10% THD
WEIGHT	5.3 Kgs, 12 lbs
SIZE	420 x 60 x 230 mm, 16.5 x 2.4 x 9"

**( MAINS VOLTAGE AND FREQUENCY IS INTERNALLY SET FOR THE COUNTRY OF USE )**

Your **A42** amplifier is designed to give you years of reliable use. However, it is necessary to take care of your possession, so never overheat it or short out the speaker connections. If an adjustment is needed, it is always advisable to return it to the supplying dealer for his expert help. If you are unfortunate enough to need service work to be carried out on your amplifier, it should be returned to your dealer or the manufacturer in the original packing material if possible.

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