



DESIGNED AND ENGINEERED  
IN THE UNITED KINGDOM

# EVOLUTION 2

INTEGRATED AMPLIFIER

## OPERATING INSTRUCTIONS

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Thank you for purchasing the Creek EVOLUTION 2. You are now in possession of a State of the Art integrated amplifier. The functions and operation of the EVOLUTION 2 are very 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".

Before switching on the amplifier check the voltage selector switch on the rear panel to ensure it is set correctly to the voltage of the country in which the amplifier is being used. Remember, do not overload the mains wall socket with too many plugs or adaptors. 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. The value is clearly stated on the rear panel.

### INPUT CONNECTION AND SWITCHING

The rotary selector switch on the left-hand side of the amplifier is used to select and listen to any of the desired inputs. There are four inputs plus tape, which is selected by the button marked tape. The selected input will appear in the display.

All line level inputs have the same sensitivity. It is not absolutely necessary to use the precise inputs as designated, **with the exception of the AV Direct**. You may, for example, plug a CD player into the Tuner input and obtain exactly the same result or performance as the dedicated CD input. However, you need to be aware that the front panel display will always reflect the input as designated on the rear panel. Therefore our recommendation would always be to connect to the designated input.

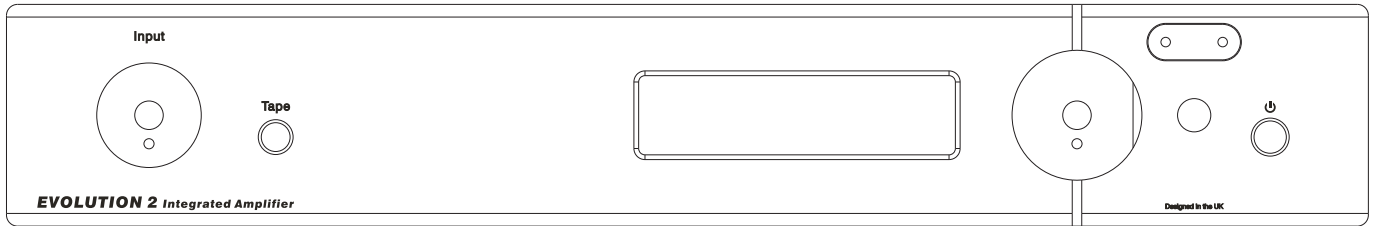
The AV Direct input is for use with a surround sound processor. This input caters specifically for those people who are more than happy with their AV solution, but not happy with the stereo option. To connect from a processor, it is necessary to run an interconnect from the front pre-outs to the AV Direct input. The Evolution 2 amplifier then becomes a standalone amplifier for front speaker use in 5.1 mode. When the AV Direct input is selected in this configuration, the Evolution 2's signal level is not controlled by its volume knob.

The pre-amp output and the power amp input is available through RCA sockets on the rear panel. However, when using an external device, such as a sub-woofer to extend the lower frequencies of your stereo speakers for example, the sub-woofer should be connected to the pre-amp output.

For added flexibility, the first input on the EVOLUTION 2 can be used either for vinyl disc or auxiliary line. To connect your turntable, it is necessary to have the optional Creek MM or MC phono plug-in board fitted. Alternatively Creek Audio produces a separate range of phono pre-amplifiers, which should be connected to the Aux input.

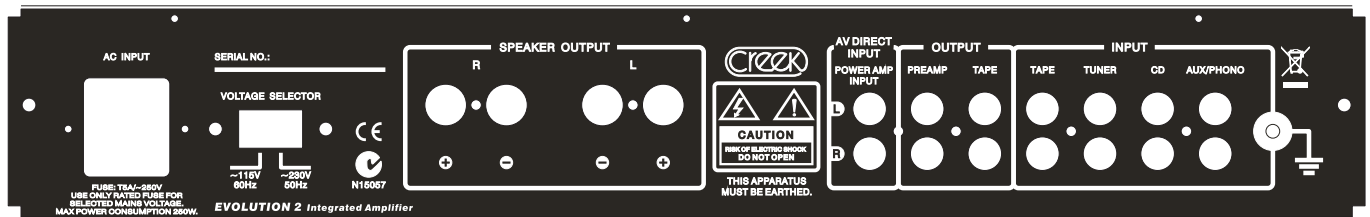
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## FRONT PANEL



The front panel from left to right features a rotary selector knob, tape switch, display panel, volume control knob, headphone socket and on/off switch.

## REAR PANEL



The rear panel from left to right features mains inlet, voltage selector switch, R & L speaker terminals, AV Direct/Power amp input, pre-amp and tape outputs, and tape, tuner, CD and aux/phono inputs.

## LOUDSPEAKER CONNECTIONS

The loudspeakers should be connected using a suitable pair of cables designed specifically for audio use. Two pairs of screw terminals allow for either bare wire, 4mm plugs or spade lug connectors to be passed through the hole or around the bush. Tighten the terminal fully after fitting the speaker wire. Please consult your dealer for advice if you are unsure.

It is very important to connect the loudspeakers to the loudspeaker terminals in the correct phase. Cables are normally polarised with a line or a raised bump on the positive side. If one channel is not connected in the same fashion as the other, a severe loss of bass performance and a spreading of the stereo image will result.

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

## VOLUME CONTROL/OPERATION

The volume can be controlled via the volume control knob situated on the right hand side of the front panel or remotely with the EVOLUTION 2 remote handset. The volume control is used to alter the relative level of the sound output from the amplifier. It is important to realise that the volume control only acts to reduce, or attenuate, the incoming signal to the power amplifier stage.

The maximum power of the amplifier is available only if the level of signal available from the line level equipment is sufficient to drive it to maximum power (clipping). The volume control is necessary to adjust the level from one piece of equipment to another. It does not increase the power of the amplifier and if it is found necessary to have the volume control set to a position which is considered to be high, before the desired level of volume is obtained, it does not necessarily mean that the amplifier is having to work "flat-out".

The volume level is displayed graphically from 0 - 80 in 1dB steps. When switching on, it defaults to a pre-set level of 30. The amplifier has short circuit and DC offset protection. The speaker relays will cut out should either of these situations occur.

## **EVOLUTION 2 INTEGRATED AMPLIFIER OPERATING INSTRUCTIONS**

### **POWER CONSUMPTION**

It is appreciated by hi-fi enthusiasts that leaving equipment powered up continuously can improve the performance. However, this small improvement in sound quality comes at the expense of higher power consumption from the mains, which will cost more for your electricity and also reduced working life of the product.

We recommend that if the equipment is not being used for a period of time, it would be better to switch it off from the mains switch on the front panel. Normal performance can be achieved in a short period of time.

### **OPERATING THE EVOLUTION 2**

Make sure that the amplifier is on a suitable table, shelf or hi-fi equipment cabinet.

It is important to allow adequate ventilation to the heat-sink in the centre of the unit. Avoid obstruction of the ventilation slots on the top and bottom of the amplifier. It may be necessary to place the amplifier on the top of other equipment, or a separate shelf to allow for this.

Switch on the amplifier by pressing the push button marked Power on the right hand side of the front panel. The power button on the remote handset does not turn on the amplifier. You will note that once switched on, the amplifier shows a pre-set moderate turn on volume level.

Select the desired input from either the rotary selector or remote handset. Adjust the volume and settle down to listen. To switch off the amplifier, press the power button.

Your EVOLUTION 2 amplifier is designed to give you years of reliable use. If you need more assistance, it is always advisable to go back 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 in the original packing material if possible.

### **REMOTE CONTROL**

Creek's EVOLUTION 2 amplifier remote control handset allows the user to operate the volume control, input selection and mute by an infra-red signal using NEC codes. It should be noted that the EVOLUTION 2 remote handset will only operate Creek's EVOLUTION range of products and is not able to power up the mains.

The input switch on the top right of the handset is a toggle switch and will sequence through all available inputs.

To mute the sound, press the 'muting' button. Pressing it a second time returns the amplifier to the previous level at which it was playing.

Volume up and volume down buttons are the lower two buttons on the right hand side of the handset.

Pressing the display button dims/brightens the display. The remaining buttons are for use with other source products.

### **RADIO INTERFERENCE**

The Creek EVOLUTION 2 amplifier is designed to work properly in normal domestic operating conditions. However, the amplifier's performance could be affected if sited near to a radio transmitter such as a mobile phone etc.

Re-siting the EVOLUTION 2 or the radio transmitter will normalise the situation.

## EVOLUTION 2 INTEGRATED AMPLIFIER OPERATING INSTRUCTIONS

### SPECIFICATION

POWER OUTPUT (both channels into 8 )	80 Watts
POWER OUTPUT (one channel into 8 )	90 Watts
POWER OUTPUT (one channel into 4 )	145 Watts
PEAK OUTPUT CURRENT INTO 1	> 10 Amps RMS
TOTAL HARMONIC DISTORTION (20 Hz to 20 kHz)	< 0.05%
FREQUENCY RESPONSE	5 Hz to 50 kHz - 1 dB
SLEW RATE	> 25 V per S
GAIN	x 52
INPUT SENSITIVITY - One channel driven/8	480 mV line input
PRE-AMP OUTPUT LEVEL	Follows input signal level via volume control
SIGNAL TO NOISE RATIO ('A' weighted)	> 90 dB
SEPARATION (line inputs)	> 60 dB at 1 kHz
MM PHONO SENSITIVITY & IMPEDANCE	3.5 mV 47 k (when fitted)
MC PHONO SENSITIVITY & IMPEDANCE	0.75 mV 1 k (when fitted)
POWER CONSUMPTION (at idle)	40 W
POWER CONSUMPTION (full power 10% THD)	340 W
WEIGHT (net)	8.6 kgs 19 lbs
SIZE (W x H x D)	430 x 80 x 340 mm 17 x 3.2 x 15.5 ins
MAINS VOLTAGE @ 60Hz	110/120V North America
Mains voltage selector switch on rear panel @ 50Hz	220/240V Europe, Asia and UK
REMOTE HANDSET	EVOLUTION 2 Supplied (Uses NEC codes)

***Creek Audio Ltd reserves the right to change or modify the specification of its products without prior warning.***

If within two years of purchase date your Creek EVOLUTION proves to be defective for any reason other than accident, misuse, neglect, unauthorized modification, or fair wear and tear, Creek Audio Ltd. will, at its discretion, replace the faulty parts without charge for labour or return carriage within the United Kingdom. This warranty is valid only in the United Kingdom and given in addition to statutory rights. Service enquiries outside the United Kingdom should be addressed first to the supplying dealer and/or the Creek distributor/importer. Warranties granted in these countries are entirely at the discretion of the distributor.

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