

# Monolith

Subwoofer System

**OWNERS MANUAL**



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# SAFETY INSTRUCTIONS

## Caution:

**To avoid the risk of electric shock do not remove the panel from the cabinet. If this unit fails or has a serious deterioration in performance then refer repair to the dealer where you purchased the unit.**

- 1) Please read these instructions carefully and keep them for future reference.
- 2) Please heed all warnings.
- 3) This unit is extremely heavy and great care must be used when lifting. Please get someone else to help you lift this subwoofer if possible.
- 4) Do not use this apparatus near water or allow to get wet.
- 5) Keep well ventilated.
- 6) Do not install near heat sources such as radiators, stoves etc.
- 7) Protect the power cord from damage.
- 8) Disconnect from the power supply during lightning storms or extended periods of inactivity.
- 9) Refer all servicing to qualified service personnel. If the unit develops a fault of any sort please refer repair back to your dealer.
- 10) Do not force the controls or switches further than their normal stops.
- 11) Clean with a dry soft cloth. If you do use polish, then apply polish to cloth not directly to the unit.

# CONNECTING UP YOUR MONOLiTH

**Always switch off your system before disconnecting or connecting any wires.**

To make connecting up of the Monolith as versatile as possible we have included Three separate inputs. One Neutrik Speakon socket, one pairs of gold plated RCA sockets and a balanced XLR input . This is to facilitate use with both Hi-Fi and AV surround systems.

The high level input, is an unbalanced dual channel (stereo) input that uses a professional touch proof Neutrik Speakon connector. Signals for this input would normally be sourced from the left and right speaker terminals of the main system amplifier. The advantage of this method is that the Monolith receives exactly the same signal as being supplied to the main speakers. This means that the character and tonal balance of the bass from the main speakers is carried through to the sub bass.

The low level input has two connections either unbalanced via one set of the gold plated RCA to RCA connectors marked as “Low Level Unbalanced” on the front panel or balanced via the XLR input marked as “Low Level Bal.”. These inputs would normally be sourced from the LFE output of an AC3 decoder. Alternatively the low level input can be connected to a dedicated sub out of a processor (for single outputs connect to the input marked “Mono”), or to stereo pre-amp output where available.

The Monolith comes fitted with four black M8 nylon screws that act as feet and help prevent the base of the subwoofer from getting scratched. If you wish to take advantage of the isolating spikes that come supplied with the Monolith then please follow the following fitting instructions:-

First thread one nut per spike on each spike. Now remove the M8 nylon screws from the bottom of the subwoofer and fit the four spikes. The cabinet can now be leveled by screwing in or out each spike accordingly. When leveled tighten up each lock nut against the base of the cabinet.

**Caution: Take special care with the spikes as they are very sharp. DO NOT use on delicate floor finishes**

# CONNECTING UP USING THE HIGH LEVEL INPUT

Figure 1. Shows a diagram on how to connect the high level input. Using the optional Neutrik lead, connect the Monolith to the output of your amplifier via your existing speaker plug or to a spare set of speaker terminals if available. In effect you are Bi-Wiring your Monolith to your power amp. Please note that the Neutrik cable has only three leads and is arranged this way to preserve the star earthing of your amplifier (assuming it has a star earth arrangement).

To connect the high level lead you will need to connect the RED wire to the RED terminal of the RIGHT hand speaker terminal of your power amp. Connect the YELLOW wire to the Red terminal of the LEFT hand channel speaker terminal of your power amp. The BLACK wire is connected to either one of the BLACK speaker terminals of your power amplifier. This is important as some power amplifiers do not like their black terminals joined. Now plug the neutrik connector into the high level input of the Monolith. The Neutrik plug will fit only one way as it has a key. Next push the plug in then turn clockwise until you feel it latch. To undo the Neutrik plug, pull back the silver lever on the Neutrik plug and turn counter-clockwise.

**Please Note:** It may not be possible or advisable to connect the high level input directly to an amplifier that has a class d digital output. Please check with the supplier of your amplifier that this form of connection is possible.

If you do have a class d amplifier and are unable to use the high level input, then BK have developed a sonically transparent isolator that overcomes this problem. Please contact us for further details.

## Method 1 - To Connect to a Power Amplifier Using the High Level Input

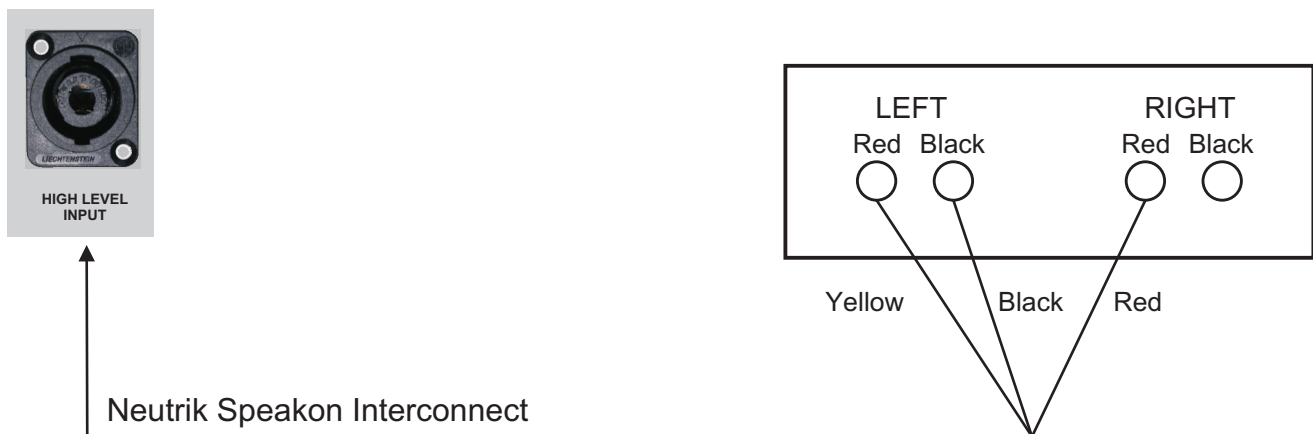


Figure 1.

# CONNECTING UP USING THE LOW LEVEL INPUT

Figure 2. Shows a diagram on how to connect the low level input. Using the supplied RCA to RCA interconnect, plug one end into the Monolith low level input and the other end into the dedicated sub output on your amplifier or processor. If a sub out is not available then you can use a spare set of pre-amp outputs.

If you only have a single sub woofer output socket on your equipment, then connect up using one of the pairs of leads (red to red). In this instance use the (Mono) input on your Monolith sub.

Please Note that high and low level connections can be used at the same time if required. This has the advantage of being able to connect up a Hi-Fi and AV system simultaneously.

## Method 2 - To Connect to the Amplifier Using the low level input

### Low Level Balanced



- Pin 1 - 0V
- Pin 2 - Hot
- Pin 3 - Cold

XLR to XLR Cable

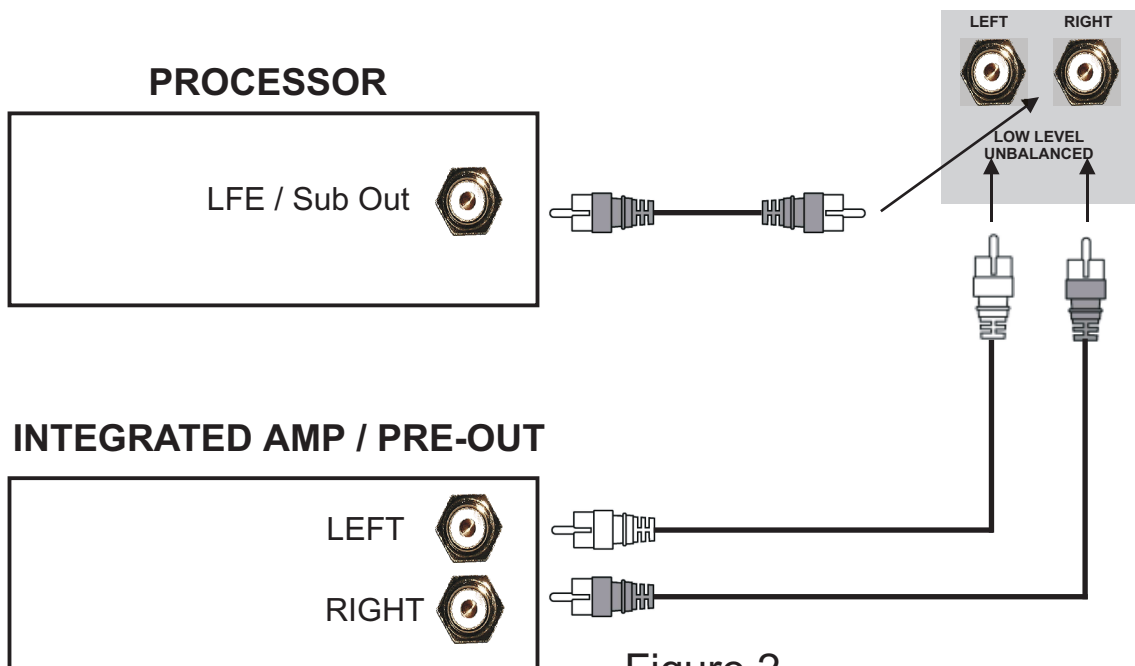
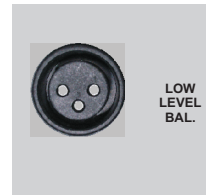


Figure 2.

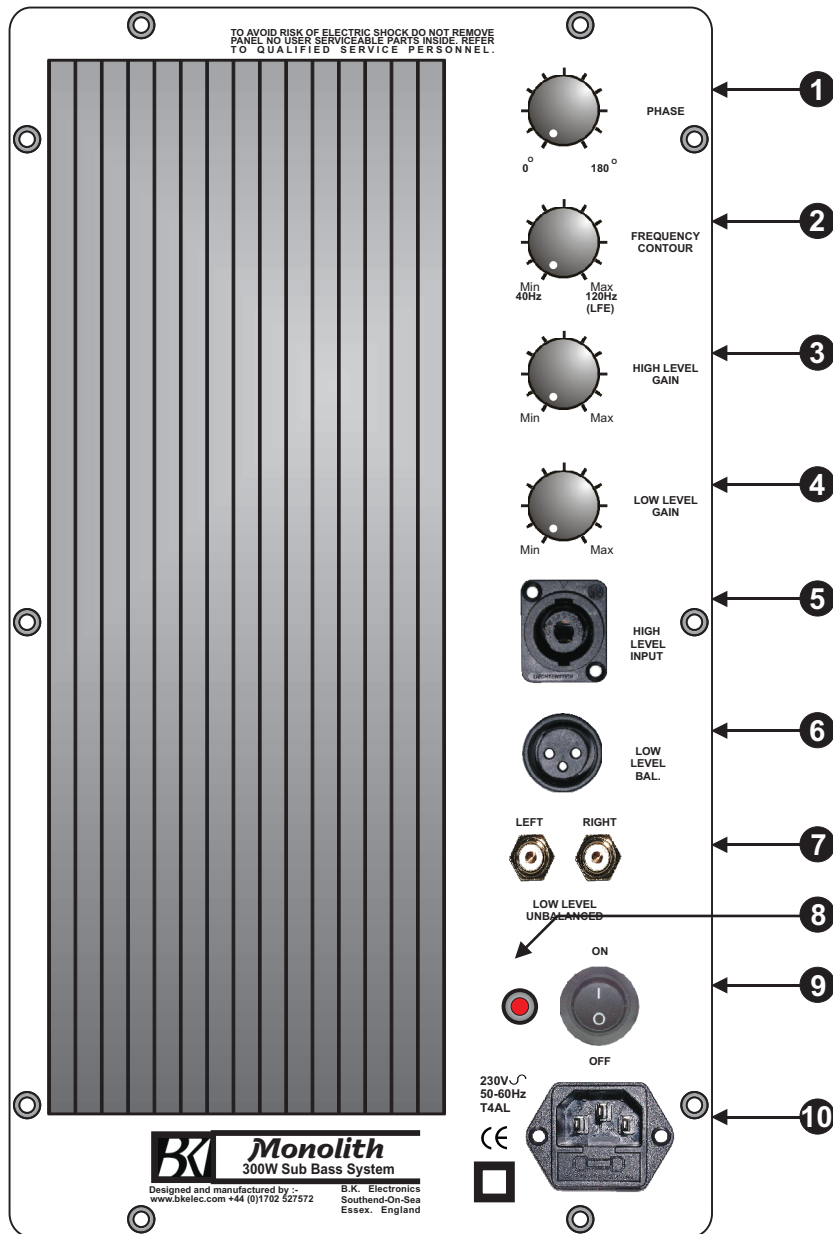
## SETTING UP YOUR Monolith

- Connect your Monolith as shown in Figure 1 or Figure 2. Then attach your subwoofer to the power supply using the power cable supplied, at this point have the power switch in the off position.
- Now turn both the high level and low level gains to the minimum position, and the frequency control to 120Hz. Turn the phase control to position 1.
- Now switch the power on, and play a track which you are familiar with that has bass content (If you are using both inputs then start by setting the high level input first using an audio CD then repeat the setting up procedure on the low level input using a film track).
- Adjust the gain control until the level of the bass from your subwoofer matches the level from your main system speakers. Now slowly adjust the frequency control counter clockwise until the output from the subwoofer meets the lowest notes from your main speakers (the crossover point), you may need to adjust the gain control again to match your main system speakers.
- The Monolith has a fully adjustable phase control to allow partial cancellation of the frequencies around the crossover point between the two systems. Listen to the quality of the bass with the phase in the 0 deg position and then slowly adjust towards the 180 deg position . Choose the position that subjectively offers the tightest cleanest bass.

Following these setup instructions will get you up and running, but over a few days with practice and a lot of listening you will be able to fine tune the system for seamless integration.

As a rule it is not usually necessary to have the subwoofer at high volume levels, but to have it gently supporting the main speakers.

# CONTROLS AND THEIR FUNCTIONS



- 1) Continuously variable phase control
- 2) Frequency Contour, set up so as to integrate with main loudspeakers. In the L.F.E. Position the filter is opened wide to allow the optimum performance from processor built in bass filtering.
- 3) High Level Gain Adjust
- 4) Low Level Gain Adjust
- 5) High Level Input connector for connection to amplifier output
- 6) Low Level Balanced input XLR
- 7) Low Level Input RCA connectors for connection to pre-amp output, Dolby output or other dedicated sub outputs
- 8) LED indicator green = on / red = protect please note that this will stay red for 5 seconds after switch on.
- 9) Power Off/On Switch
- 10) IEC mains input connector. (Fuse Drawer contains spare 4AT fuse)



# SPECIFICATION

<b>System Type:</b>	Ported Reflex Sub-bass system with on-board amplification and active filtering. Fully optimised enclosure manufactured from critically damped and braced 25mm MDF
<b>Distortion:</b>	Less than 5% @102dB / 20Hz
<b>Drive Units:</b>	<b>300mm</b> 12" high-efficiency unit. Extreme long stroke composite fiber cone driven by a 2 " 50mm voice coil. Heavy-duty non-resonant cast aluminium chassis and fully optimised stacked magnet system.
<b>Amplifier:</b>	<b>300W</b> RMS DC coupled MOSFET
<b>Inputs:</b>	High Level 100K ohm unbalanced via Neutrik Speakon connector Low level 10K unbalanced via gold plated RCA connectors. 10k Balanced XLR
<b>Nominal impedance/input voltage:</b>	110/120v (220/240v) where applicable.
<b>Sensitivity/Features:</b>	Phase control 0 and 180 Deg. High and low level mixing capability. Automatic Speaker Protection Anti Thump Thermal Protection
<b>Dimensions HxWxD:</b>	560D X 540H x 420W
<b>Weight each unpacked:</b>	42.75Kg - 94 lbs.
<b>Color finishes:</b>	Cherry ,Light Oak, Black Ash