APart

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MANUAL

ANY SUGGESTION?

They are well appreciated and eventually rewarded!
Send your ideas or suggestions to

suggestions@apart-audio.com

CE

AUDIOLOCK

OPERATION:

This sound limiter is placed in your existing sound equipment between the pre-amplifier (mixer) and power amplifier. After placing and adjusting the equipment, a fixed maximum level can never be exceeded.
If the DJ wants to exceed this level, the Audiolock will re-adjust this fully automatically and inaudibly.
On the front panel as well as on the remote control (available as an option) a red led will show as soon as the maximum level has been achieved.

INSTALLATION

Place the appliance in such a way that the reverse side faces you.
Remove the lid by easing it in your direction.

The appliance is opened.
On the reverse side, we see the adjustment connection points.
On the left-hand side, we see the connection points for the audio signal which are of the XLR type.
In the middle, we see a green multi-connector used for the connection of the power adaptor and the remote control.

REMOTE CONTROL

LED

Power supply

Potentiometer
10K Lineair
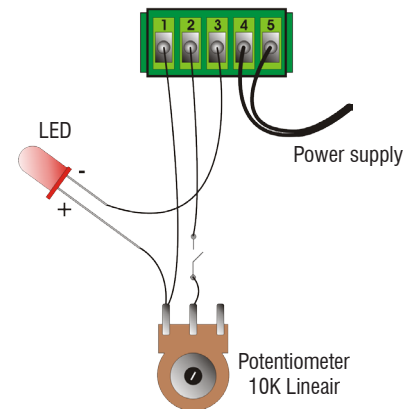
The picture next to this shows how you yourself can make a remote control with standard components obtainable in the local electronic store.

WATCH OUT: if the appliance is wrongly connected or wrong components have been used, the appliance can be permanently damaged and the guarantee will be void.
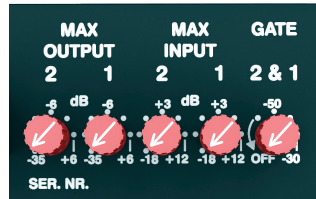
All the connections of the Audiolock have been made.
We can now proceed to test and adjust the appliance.
Please check if all connections have been executed correctly.
Switch all controls (5 trim potentiometers) of the appliance to minimum (anticlockwise).
We connect the Audiolock to the voltage by means of a mains adaptor. Look to see if the blue LED on the front panel lights up. If it does not, check all connections thoroughly (especially the ones of the green multi- connector).

CALIBRATING

Turn the output trimmers to 1/4 and the MAX INPUT trimmers fully open (as indicated on picture).
The volume adjustments of the power-amplifiers are now switched to MAX. Next, switch on the amplifiers. The source (CD player or other) is started. If everything has been connected correctly, we can hear music playing.

Set the mixer (or pre-amplifier) at a non-distorted maximum level playing noisy music (e.g. Dance House music).
BEWARE OFF the distortion from the mixer . (This is distinguished by bad bass reproduction) !!

Both the MAX INPUT trimmers are turned back until the green LEDs are just turning red. Now the 'INPUT' level is fixed.


We are now fixing the maximum level of the appliance.
Adjust the MAX OUTPUT trimmers until the preferred level is reached.
This level can be:
- A level fixed by law. Here the Audiolock works as a decibel (dB) sound limiter.
- Maximum output of the amplifiers without distorted (so that the clip-LEDs do not light up anymore). The Audiolock works as an appliance-protector (no more broken speakers or amplifiers).
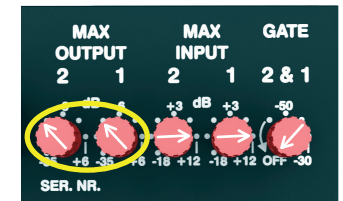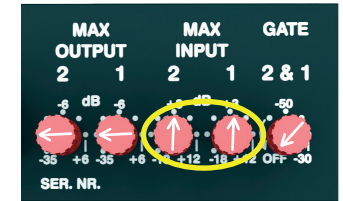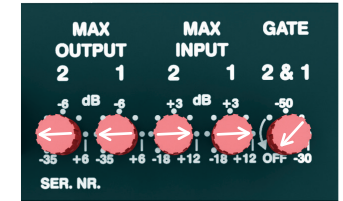
NOISE GATE

This function prevents noise and buzzing when no signal is present.
How does this work in practice:
If no signal is present (the CD player is on pause or the master fader of the mixer is off), there will always be a basic noise or buzzing of the appliance present (coming from mixer, equalizer,...). When the Audi-olock GATE function is correctly adjusted, this will become active after a short time. This implies that the Audiolock will interrupt the signal system electronically and consequently...

ADJUSTMENT:
Make sure that the Audiolock is fully connected and operational. Turn the adjusting trimmer of the GATE completely off (anticlockwise).
Switch off the music source (e.g. Stop CD player or switch off the mixer MASTER-OUT). Wait for about 1minute. Turn the GATE trim-mer until the green LED on the frontpanel of the Audiolock switches off.

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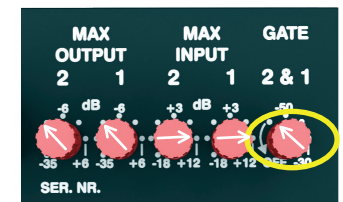
SEALING

If a remote control needs to be connected, read page 7
If all the previous functions are working, the Audiolock-housing is ready to be closed and sealed.
Enter all the wires and cables connected to Audiolock through the lid's slot and do this as shown on the picture above.
Carefully push the lid back in place: the Audiolock housing is now closed and ready to be sealed.

On the right-hand side, put the seal through the opening and seal it off.
Repeat this operation on the left-hand side but beware that all wires and cables are entered through the seal (to prevent sabotage) and seal these off as well.

The green multi-connector consists of two parts. On the left-hand side, we find the tri polar part for connection to the remote control. On this connector a wire bridge is assembled between 1 and 2. Only remove this bridge when a remote control is connected.

On the right-hand side, we find the two polar parts for connection to the power adaptor. Remove this part by gently pulling the connector backwards.
Connect the power adaptor to the clips marked as 4 and 5. The polarity is of no importance. Put the connector back in its place.
The power adaptor is now connected.

! Only connect the power adaptor delivered with the appliance; it is specifically designed for this appliance. Connecting another type of adaptor can cause permanent damage to the appliance. The power adaptor requires a voltage of 230/AC.

Let us start connecting the existing stereo to the Audiolock sound limiter.
BEWARE that the amplifiers have been shut down (or the volume control is off)!!!!!
The Audiolock limiter must be connected between the signal route of the mixer (or pre-amplifier) to the power amplifiers.

INPUT AUDIOLOCK:
From the mixer output (or any other source e.g.pre-amplifier) we make a connection to the input XLR of the Audiolock marked as INPUT BALANCED by means of a signal cable.
OUTPUT AUDIOLOCK:
From the Audiolock OUTPUT BALANCED we start connecting to the power amplifiers by means of XLR plugs.