Echo MegaLoop DAC™

Induction Loop Amplifier Manual

INDUCTION LOOP SYSTEM WITH DIGITAL CONVERTER

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Echo MegaLoop DAC™

Induction loop amplifier system with built in digital to analogue converter

Please read and follow the safety instructions before using the product

Safety Instructions and Precautions:

- Listening to uncomfortable sound levels for prolonged periods could adversely affect your hearing.

- Using this product inappropriately could adversely affect your hearing. Please follow the step-by-step instructions carefully!

- To clean the MegaLoop DAC™ and its accessories, use only a soft cloth and an inorganic cleaner.

- Only use the Hearing Products approved mains adapter. Do not use any other type of mains adapter.

- When using this unit, basic safety precautions as below should always be followed to avoid the risk of electrical shock or personal injury.

- Read and understand the instructions and follow all warnings and markings on the unit.

- Do not use in an environment that is damp, wet, very hot or very cold.
- Install the unit securely on a stable surface and install the unit where the power cord will not be subject to damage or cause a tripping hazard.

- The unit may get warm when being used. Ensure the unit has adequate ventilation.

- Please refer all servicing to qualified personnel ONLY!.
  Note: if the serial number is removed your warranty is invalid.

Contents Picture:

A. MegaLoop DAC Amplifier B. Mains Power Adapter C. Loop wire

D. Clips E. Microphone F. SCART Plu

G. Phono Phono Lead H. Toslink Cable

A

B

C

D

E

F

G

H

Installation Instructions *(Refer to Fig. 1 – Fig. 4)*:

1. Position the MegaLoop DAC™ amplifier on shelf under TV.

2. Plug the MegaLoop DAC™ mains power adapter (B) into a standard electrical power socket, then plug the power lead into socket (1) (Fig. 2).

3. Starting from the amplifier, run the loop wire (C) around the edge of the room. The wire can be tacked up and over door frames if necessary. The wire can be tucked under the carpet or clipped to the skirting board (Fig. 3). Make sure you leave enough wire to reach the amplifier.

4. Once a complete loop of the room has been formed, cut away any surplus wire making sure to cut away the insulation from the wire ends. Clip each end of the wire into terminals (2) (Fig. 2).

5. If you are using a loop pad (Optional), clip the end of the lead into terminals (2) (Fig. 2). Make sure the lead is placed carefully, so as not to cause a tripping hazard. Never run the lead across the floor unless fully under the carpet. Always remember that loose wires are a tripping hazard.

6. When connecting to a TV which has digital optical audio output (see page 7) use the Toslink cable (H) to connect from the TV digital output socket to the MegaLoop DAC™ digital socket (4) (Fig. 2). NOTE if no sound signal is going into the MegaLoop DAC™ the no signal LED (5) (Fig. 2) will be illuminated.

7. When connecting to a TV that has analogue audio output sockets (see page 6) connect the lead (G) to the phono audio output sockets on the TV and connect the other end to the line socket (6) (Fig 2).

8. If using the microphone, plug the 3,5mm jack on the microphone (E) into one of the microphone sockets on the MegaLoop™DAC (7&8) (Fig 2), then fix the microphone to the speaker of the TV (Fig 4). For an explanation of the microphone priority function see page 8.

9. How to test your installation:Switch the Megaloop DAC™ on, the green LED (6) (Fig 1) should be lit, set the volume to max position (3) (Fig 1). Switch your TV on. The red loop LED should start to flash this indicates that the system is working. Turn the volume to mid position then set your hearing aid to the T position to start using the system.

Figure 1

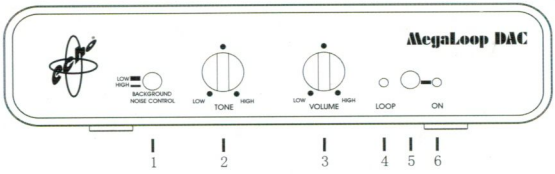


Figure 2

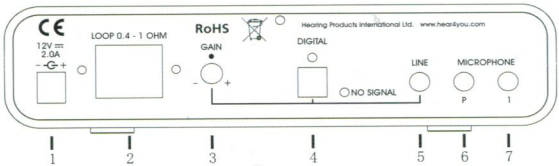


Figure 3

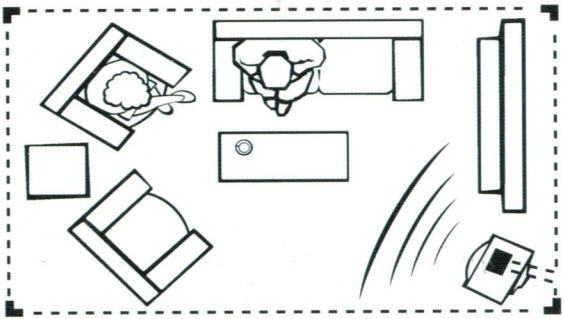
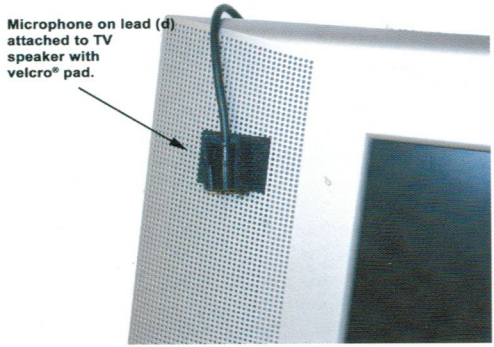
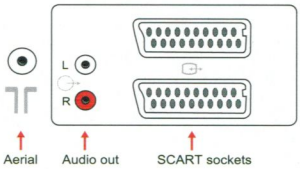


Figure 4



Advice for connecting to TV with analogue audio output.



Audio out

When connecting to a TV the first thing to look for is red and white audio out sockets, these are usually at the back of the TV, and usually indicated by a circle with an arrow pointing out of it. Connecting from audio out will always provide the correct sound for the program that is being watched. **Note the red white and yellow or red white and blue sockets are for sound and picture in and do not give sound out.**

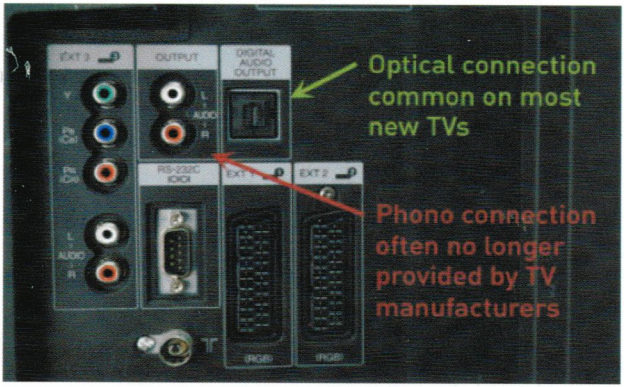
Headphone socket

If the TV has no audio out sockets or they are not working, the next thing to try is the headphone socket. Simply switch the TV on and insert the 3.5mm jack plug into the headphone socket, if the sound is not cut from the speakers then connect from this and into the line in on the Megaloop DAC™. You will then have to adjust the headphone volume level on the TV, this is done by pressing the menu button on the TV remote, selecting sound and then moving the headphone volume to about two thirds full.

Microphone pick up

If the TV has no audio out and the headphone connection cuts the sound from the TV speakers, simply pick up sound by fixing the microphone provided to the speaker of the TV.

Advice for connecting to a TV with Digital Optical Audio Output



The Toslink cable should be connected to the digital audio output as shown above.

IMPORTANT:

The MegaLoop DAC™ microphone is very sensitive, and too much volume out of the TV speaker can distort the sound in your hearing aid when in the "T" position. The TV speaker's volume should be set at a level comfortable for a person with average hearing.

Microphone Priority Function
The microphone sockets (7 & 8) (Fig 2) can both be used. Socket (8) is the standard socket to use, when connecting the microphone to a TV with Hi-Fi speakers. Socket (P) stands for priority, it gives a louder signal than socket (7), this is very useful when using a second microphone for environmental sounds that must be heard over and above the TV or Hi-Fi.

Background noise Function
The background noise button (1) (Fig 1) can be used to boost the microphone sound level, this can be very useful when using a microphone to pick up environmental sound over and above the TV.

one Control (2) (Fig 1)
Adjust to suit your own hearing loss. Turning the control in an anti-clockwise direction tones become lower. Turning clockwise the tones become higher.

Gain Control (3) (Fig 2)
The factory setting for gain control knob (3) (Fig 2) is mid position. This position is preset for most TV Scart and audio output signals. For some TV sets this may have to be increased to compensate for a low output signal, especially if using the digital optical output.

No Signal (5) (Fig 2)
This LED will be lit if no audio signal is being received.

Replacement Parts:

Code	Item
2007	MegaLoop DAC™ Amplifier only
202/M	Microphone on lead with Velcro
570-1009-01	Mains Power Adapter
207	Loop Wire 38m
208	Clips (50 off)
30060	Combination Audio Lead
1008	MegaLoop DAC™ stand
209	Toslink cable 1m

Technical Specifications:

Power Supply:	12v DC. 2.0 amp positive centre
Output:	Output current > 4amp peak current, loop resistance less than 1 ohm
Frequency response:	100Hz to 5.2khz (v/c mid)
Tone Control Effect:	20db range max-min (v/c middle)
Microphone:	2 microphone inputs 3.5mm mono/electret condenser
Line Input:	1 line-level input, 3.5mm stereo connector with gain control
Digital Output:	1 line-level optical input, Toslink connector with gain control
AGC:	Attack time > 30 dB range
Dimensions:	190mm(W) x 45mm(H) x 112mm(D)

Conformity

MegaLoop DAC™ EN 55013, EN 55020, EN 61000-3-2/3, EN6005

Mains Power Adapter EN 60950

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