Echo® MegaLoop Pro™
Product Code: 901-1010-02

User Manual
Hearing Products International Limited.

CONTENT

Introduction

The Echo® MegaLoop Pro™ Induction loop amplifier provides a
practical solution for listening to TV or Audio equipment via the
'T' setting or hearing loop on your hearing aid.
The induction loop system takes sound from your TV or other
sound source and amplifies this sound signal around a wire fitted
in a continuous loop around the edges of the room. This signal is
sent out in the form of an alternating current and when the
alternating current flows through the loop a magnetic field is
created within the room. The hearing aid user picks up the
fluctuations in the magnetic field and converts them into sound
via the amplifier and this provides an improved sound signal.

Safety Instructions

The manufacturer cannot be held responsible for damage which is caused by not using this Loop System in compliance with these safety instructions:

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

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

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

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

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

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

7. Do not use in an environment that is damp, wet, very hot or very cold.

8. 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.

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

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

Contents Picture

A. MegaLoop Pro Amplifier with Stand
B. Mains Power Adapter
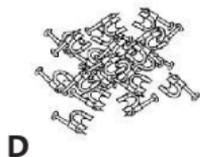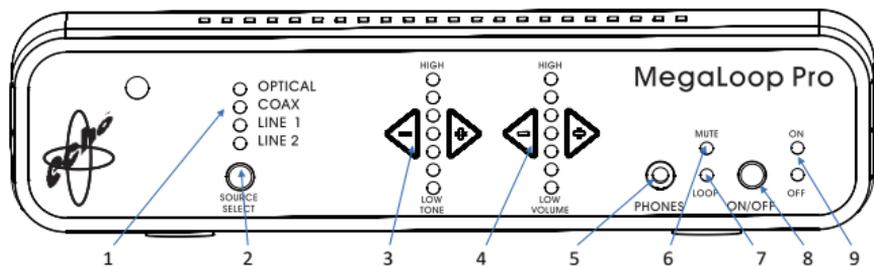C. Loop Wire
D. Clips
E. Microphone

F. SCART Plug
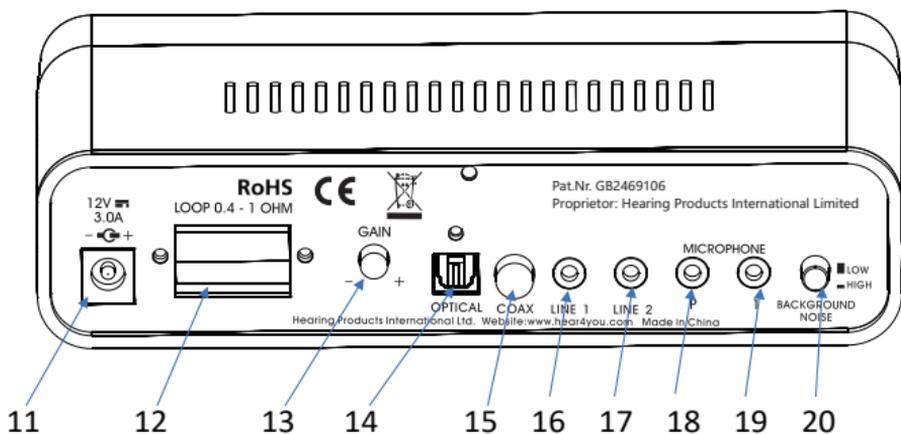G. Phono Phono Lead
H. TOSlink Cable
I. Remote Control
J. AAA Drycell (2)

A

B   **C**   **D**

E   **F**   **G**

H   **I**   **J**

1. Digital audio and line input indicators
2. Audio Input Source Select
3. Tone Control
4. Volume Control
5. Headphone Socket

6. Mute Indicator
7. Loop Indicator
8. Power ON/ OFF
9. ON/OFF Indicator

11. DC Power Socket
12. Loop Cable Connectors
13. Gain Control
14. Optical Digital Audio Input
15. Coaxial Digital Audio Input
16. Line Input 1

17. Line Input 2
18. Microphone Input Priority
19. Microphone Input 1
20. Background Noise Control

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Set Up:

**1.** Position the amplifier (A) in a convenient and well-ventilated area that is easily accessible and near to the TV or other audio source.

2. Starting from the amplifier, run the loop cable (C) round the room. It may be fixed to a skirting board, picture rail or tucked under the carpet (use clips provided D). The cable can be tacked up and over door frames if necessary. Make sure you leave enough wire to reach the amplifier.

3. If using a loop pad (optional), place the pad in a suitable position on the chair to be used and connect the lead from the pad to the cable terminals (12) on the back of the amplifier. Lay the connecting lead carefully, so as not to cause an obstruction or tripping hazard, leading to injury.

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 loop cable connector (12) on the amplifier. Press the button on the loop cable connector (12) and a hole will appear, insert the cable (C) and release the button to lock the cable in place.
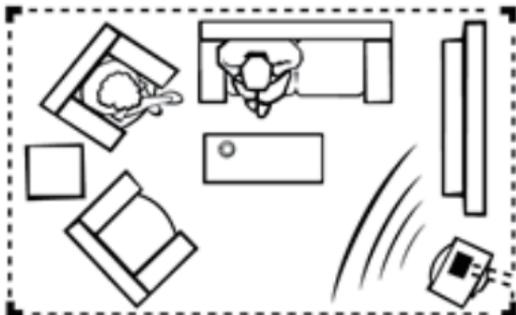
Connection:

Direct Audio connections will provide the clearest quality sound without background noise affecting the clarity.

5. When connecting to a TV which has digital optical audio output, use the TOSlink cable (H) to connect from the TV digital output socket to the amplifiers optical socket (14). Using the source select (2) choose the setting for the digital audio connection in use.
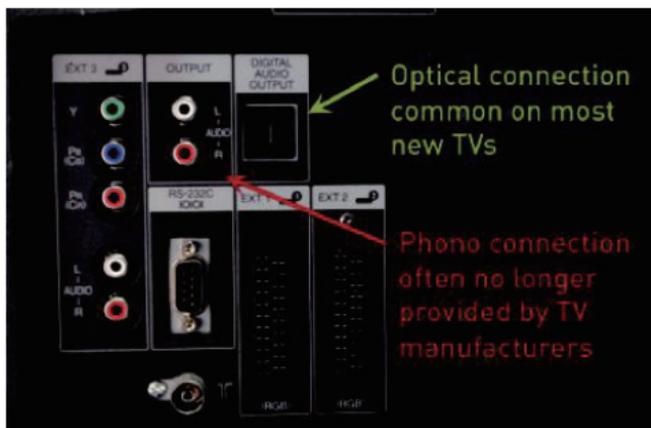
6. When connecting to a TV that has coaxial audio output sockets connect the Coaxial cable (Coaxial cable not included) to the coaxial audio output sockets on the TV and connect the other end to the coaxial socket on the amplifier (15). Using the source select (2) choose the setting for coaxial audio connection in use.

NOTE: You may need to change the settings on your TV Digital output to PCM so that the digital audio out signal matches the loop amplifier.

7. When connecting to a TV that has analogue audio output sockets connect the red/ white phono audio connectors (G) to the output sockets on the TV and connect the other end to the line socket on the amplifier (16 or 17). Using the source select (2) choose the setting for the correct line socket. There are 2 line sockets (16 and 17), select the one in use.

8. If the TV or other sound source does not have a set of phono connectors, then use the scart (F) or jack adaptors (G) accordingly. When using the jack adapter in a headphone socket on the TV please be aware that this may turn off the internal speaker. Check your TV settings to see if it allows the TV speakers to be left on.

9. If direct connection is not possible, using the microphone (E), plug the 3.5mm jack on the microphone into one of the microphone sockets on the amplifier (18 or 19), then fix the microphone to the speaker of the TV. A microphone can also be used for someone to speak directly into the loop system, so they can speak directly to the hearing aid user while they listen to TV. A microphone can be used at the same time as the line inputs to monitor other sounds such as a doorbell or telephone. One or two microphones can be used at the same time.

Note: The 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.

10. Use the source select (2) on the front of the amplifier to select the correct audio connection in use. A red LED (1) will indicate which source has been selected until the power is disconnected at the mains socket. When the power is reconnected the default audio input is Optical.

Power:

11. Plug the mains power adapter (B) into a standard electrical power socket near the TV or other audio source, then plug the power lead into the amplifier power socket (11).

12. Switch the amplifier on (8) and the green LED (9) should be lit. Switch your TV on. The red loop LED (7) should start to flash, this indicates that the system is working. Turn the volume (4) to mid position then set your hearing aid to the T position to start using the system.

13. To turn the amplifier off, press the power button (8), the green LED (9) will change colour to red and the amplifier will be in standby mode which uses low power and no signal is being transmitted. The next time the power is turned on the volume, tone and source settings will be restored.

To remove all power, disconnect the amplifier from the mains socket. When the power is reconnected the default audio input is Optical (input 1). The input will have to be selected again.

- Set the TV or other audio equipment on to a normal listening level for other members of the household.
- Select the sound source required from the source select buttons.
- Set the volume control to minimum/ tone to normal (mid position).
- Switch your hearing aid on to the 'T' setting.
- Adjust the volume and tone to suit your listening.

ADDITIONAL INFORMATION:

Microphone Priority Function

The microphone sockets (18 and 19) can both be used. Socket (1) is the standard socket to use, when connecting the microphone to a TV with speakers. Socket (P) stands for priority, it gives a louder signal than socket (1), this is very useful when using a second microphone for environmental sounds that must be heard over and above the TV or other sound source.

Background noise Function

The background noise button (20) 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.

Volume Control

Use to adjust the volume (4) of the signal received by the hearing aid. As the signal increases the volume LED will travel up indicating the volume level in use and travel down when the signal is decreased. Also adjustable by remote control.

Tone Control

Adjust to suit your own hearing loss. As the tone control (3) is moved the LED will travel up indicating the higher frequencies and travel down indicating the lower frequencies. Also adjustable by remote control.

Gain Control

The factory setting for gain control knob (13) is mid position.

This position is pre-set 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.

Mute

Mute can be selected by pressing mute button on the remote control, the green LED (6) will be lit on the amplifier. Or by manually pressing minus (-) volume button (4) on the amplifier until red volume indicator is no longer lit and green mute LED is lit (6).

Loop Indicator

This red LED (7) indicates the signal is being transmitted around the loop cable. It will flicker with a low volume and increase flickering with a louder volume.
You can test the system by speaking into the microphone and seeing if the red LED flickers each time you speak, indicating the signal (output loop current) is flowing around the cable.

Sound Source

Use the sound source (2) to select the connection made to the amplifier.
When a channel is selected a red LED will light (1). Press the button again and the light will go out showing the channel is off. The default sound source is Optical. The amplifier will keep the same input if in stand-by and the red LED (1) will always indicate the input source. However, if the power is turned off the amplifier will default to Optical (input 1) and you will have to select the input again when the power is turned back on.

Headphone Socket

The headphone socket (5) may be used with the headphones but when using this socket to listen with headphones the sound levels may be high, especially if no loop wire is connected. Please set the volume (4) to minimum before use and adjust accordingly.

Remote

The remote control (I) allows the user to operate all the front panel controls of the amplifier as previously shown. *
In addition, there is also a mute function for the volume. Please insert drycell batteries (J) into remote before use. Simply remove battery compartment cover insert batteries and replace cover.

* Source select (2) is NOT adjustable by Remote control.

Replacement Parts:

Code	Item
1009	MegaLoop Pro Amplifier & Remote
1010	MegaLoop Pro Base Stand
207	Loop wire – 38m
208	Cable clips (pack of 50)
306/B	Phono leads
201/B	Scart plug
202/M	Microphone on lead
209	Toslink cable
570-1013-01	12V DC3A with UK plug
940-1015-01	MegaLoop Pro User Manual
490-1018-01	Brown cardboard carton box

Technical Specifications:

Power Supply	12v DC. 3.0 amp positive centre
Output	Output Current > 4amp peak current into 0.4ohms
Frequency Response	100Hz to 5.0khz
Tone Control Effect	+/-3db range @200Hz and 5KHz
Microphone	2 microphone inputs 3.5mm mono/ electret condenser
Line Input	2 line-level input, 3.5mm stereo connector with gain control
Digital Input	1 line-level optical input, Toslink connector with gain control
Digital Input	Coaxial input
AGC	>30dB range
Dimensions	190mm (W) x 45mm (H) x 112mm (D)
Weight	441 grams
Line Audio input	Nominal level 100mV
Microphone P input	Nominal level -60dB
Microphone 1 input	Nominal level -44dB (Background noise switch low) -50dB (High)
Loop output impedence	Between 0.4ohm and 1.0 ohm

Loop wire recommended for areas covered, according to
BS EN 60118-4-2006
- 16sqm to 40 sqm – 0.75mm csa – **BS. EN 60118-4-2006**
- 40sqm to 65 sqm – 1mm csa – **BS. EN 60118-4-2006**
- 65sqm to 90 sqm – 1.5mm csa – **BS. EN 60118-4-2006**

NOTE:
Capable of meeting BS. EN 60118-4:2006 for a loop area not exceeding an area of 90 sqm (9.5m x 9.5m) A larger loop area can be used if a lower signal strength is acceptable which will depend greatly on your hearing aids or receiver.

Coverage is dependent on the specific installation. Irregular shaped areas, proximity to large metal structures, positioning of the loop cable etc will affect the field strength.

Conformity

Echo® is a trademark of Hearing Products International Limited.

Hearing Products International Limited declares that the Echo® MegaLoop Pro™ complies with all relevant EU directives. The full EU declaration of conformance for the Echo® MegaLoop Pro™ is available from Hearing Products International Ltd.

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