



LA60 Loop Amplifier

Owner's Manual

Introduction

The LA60 Loop Amplifier provides a practical solution for hearing aid users to listen more easily to conversation or other audio sources via the "T" or "MT" facility of their aid.

The amplifier unit picks up sound via a microphone or direct connection lead and sends the signal to a loop placed in the listening area which transmits the sound inductively, "magnetic sound waves", to the hearing aid.

Functions

- 1) **POWER:-** This light will be on constantly while power is being supplied to the system.
- 2) **LOOP DRIVE:-** This light shows that a signal is being passed from the amplifier unit to a loop and that the loop is continuous.
- 3) **OVERLOAD:-** If the red light is illuminated constantly, adjust the volume control until the red light is just flickering giving the maximum undistorted output.
- 4) **VOLUME:-** This controls the volume level for the user.
- 5) **BALANCE:-**
 - This control balances the total level of the output signal between the two inputs.
 - If using only one microphone ensure that you adjust this control to give the maximum output signal.
 - Turn the balance control clockwise for channel 1 (mic 1), and anticlockwise for channel 2 (mic 2).
 - If using both Microphones use the balance control to get optimum performance from both microphones.
 - Each microphone channel can alternatively be used as a line input for connection to other audio equipment. (If using this method turn the balance control away from the input being used).



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OPERATION

When using a microphone, either microphone socket can be used, adjust the balance control to gain the maximum output signal.

To connect a loop pad push the exposed metal of the lead into the loop connectors ensuring that only the metal is gripped in the terminal. To release the cable press the grey buttons down with a screwdriver and pull the cable free.

Before switching the unit on ensure that the volume control is set to its minimum level and the balance control is set to the middle position.

Switch on the amplifier by pressing the ON/OFF button on the mains socket, the green power light will then be illuminated.

Ensure that the hearing aid wearer switches their aid to the "T" or "MT" position.

Adjust the volume control for best results.

Adjust the balance control to optimise the signal from the microphone or sound source

PROBLEMS AND CURES

Symptom	Possible cause and remedy
No sound.	<ul style="list-style-type: none"> Re-check all connections. Amplifier not switched on. Check green LED light is on. Microphone not plugged in or other audio source not connected. Hearing aid not on "T/MT" or "T" facility not working.
Low sound.	<ul style="list-style-type: none"> Microphone too far from sound. Loop Pad incorrectly placed. Check installation instructions. Volume control set too low. Turn up volume on amplifier.
Distorted sound	<ul style="list-style-type: none"> Loop Volume control too high. Turn volume down. Microphone plug/lead damaged.
Background noise (hum or buzz)	<ul style="list-style-type: none"> If noise remains when loop amplifier is turned off but hearing aid is still on "T", this is interference caused by other equipment such as TV, fluorescent lights or dimmer switches. With the loop amplifier turned off and the hearing aid still on "T" turn items off in turn until the noise goes away. If noise stops when the loop amplifier is turned off there may be a fault in the system or microphone lead or noise is being picked up by the microphone.

If in doubt please contact your dealer for assistance.

SPECIFICATION

Power Supply	• 180V-265V AC 50/60 Hz 10 VA
Controls	<ul style="list-style-type: none"> Rotary VOLUME control to vary the output level. Rotary BALANCE control to vary the Input level.
Input connections	<ul style="list-style-type: none"> 2 microphone inputs MIC1/MIC2. 3.5mm mono jack plug. DC powered for electret microphones. Direct line input. 3.5mm mono jack plug For direct connection to a TV sound output or other audio source via SCART or other suitable socket.
Output connections	• Push grip connectors for loop cable or loop pad (Labelled: Loop). Loop resistance between 1.0 and 1.5 Ohms will give full output.
Loop output	1.3A RMS, 1.82A peak output @ 100-5KHz. Sufficient to meet BS6083 pt4 (IEC118-4) in a Loop using 24/0.2 0.75 mm ² cable 0.03 Ω/m
Indicators	<ul style="list-style-type: none"> Green Light Emitting Diode (LED) for Power On indication. Green Light Emitting Diode for Loop Drive indication Red Light Emitting Diode for Overload Condition indication



Product conforms to the provisions of the following European Union Directives

- 73/23 Low Voltage Directive
- 89/336 & 92/31 Electro Magnetic Compatibility Directives

SAFETY PRECAUTIONS

The manufacturer cannot be held responsible for damage which is caused by not using the Loop Amplifier in compliance with the safety precautions.

- Do not open casing of Loop Amplifier at any time; **NO** user serviceable parts can be found inside.
- Ensure mains power is disconnected BEFORE any connections are made to the Loop Amplifier.
- Do not expose the Loop Amplifier, cable and accessories to rain or any other source of moisture.
- Ensure that there is enough room around the Loop Amplifier for ventilation purposes.
- Do not place the Loop Amplifier close to sources of heat, such as radiators.

IF IN DOUBT - SEEK EXPERT ADVICE