

DRAWMER

LA12

LINE AMP

OPERATORS MANUAL

CONTENTS

SAFETY CONSIDERATIONS	page 1
INSTALLATION	page 2
INTRODUCTION	page 3
OPERATION	page 3
FRONT & REAR PANEL LAYOUT	page 4
IF A FAULT DEVELOPS	page 5
CONTACTING DRAWMER	page 5
TECHNICAL SPECIFICATION	page 5
BLOCK DIAGRAM	page 6

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This warranty is void if the product has been damaged by misuse, modification or unauthorised repair.

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In the interests of product development, Drawmer reserve the right to modify or improve specifications of this product at any time, without prior notice.

DRAWMER LA12

LINE DISTRIBUTION AMPLIFIER



SAFETY CONSIDERATIONS



CAUTION - MAINS FUSE

TO REDUCE THE RISK OF FIRE REPLACE THE MAINS FUSE ONLY WITH THE SAME TYPE, WHICH MUST BE A CLASS 3, 230 VOLT, TIME DELAY TYPE, RATED AT 32mA WHERE THE MAINS INPUT VOLTAGE SWITCH IS SET TO 230 VOLTS AC. AND 63mA WHERE THE MAINS INPUT VOLTAGE IS 115 VOLTS AC. **ALL FUSES MUST COMPLY WITH BS EN 60127-2:1991, SHEET III.** THE FUSE BODY SIZE IS 20mm x 5mm.

CAUTION - MAINS CABLE

DO NOT ATTEMPT TO CHANGE OR TAMPER WITH THE SUPPLIED MAINS CABLE.

CAUTION - SERVICING

DO NOT PERFORM ANY SERVICING. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



INSTALLATION

The LA12 is designed for standard 19" rack mounting and occupies 1U of rack space. Avoid mounting the unit directly above power amplifiers or power supplies that radiate significant amounts of heat. Fibre or plastic washers may be used to prevent the front panel becoming marked by the mounting bolts.

AUDIO CONNECTIONS

All audio connections are on professional quality phono (RCA jack) connectors, with white for Left and red for Right channels.

Interference: If the unit is to be used where it may be exposed to high levels of disturbance such as found close to a TV or radio transmitter, we advise that various wiring configurations of different ground points are tried for the lowest noise. The LA12 conforms to the EMC standards.

Ground Loops: If ground loop problems are encountered, **never** disconnect the mains earth, but instead, try disconnecting the signal screen on one end of each of the cables connecting the outputs of the LA12 to the patchbay.

POWER CONNECTION

The LA12 is supplied with a power cable suitable for domestic power outlets in your country. For your own safety it is important that you use this cable to connect to the mains supply earth. The cable should not be tampered with or modified.

If, for some reason, the unit is to be used at a mains input operating voltage which is different to that as supplied, the following procedure must be carried out. (*see Front & Rear Panel diagram, on page 4*)

- 1: Disconnect the unit from the mains.
 - 2: Using a number 1 size pozidrive screwdriver, remove the two self-tapping screws holding the voltage selection switch cover plate on the rear panel.
 - 3: Remove the cover plate and slide the switch fully to its opposite end.
 - 4: Rotate the cover plate one half turn, (180°) and refit the two screws.
 - 5: Replace with a correctly rated fuse for the selected operation voltage.
 - 6: Re-connect to mains power source.
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INTRODUCTION

The Drawmer LA12 is a low noise, low crosstalk distribution amplifier. The unit provides one stereo input with master 'gain' and 'balance' controls and twelve stereo outputs, each with individual output level control. It may be used to distribute one stereo signal to up to twelve different outputs. A typical application example would be for real time cassette duplication, but it may be used for a variety of other applications, such as the distribution of one stereo signal to other rooms/areas within a complex e.g. discotheques, shopping malls etc.

A maximum gain of +20dB is available through the unit, which allows a wide range of 'source' and 'destination' equipment to be interfaced.

An auxiliary stereo output which follows the input gain and balance controls can be linked to the input of a second LA12 if further stereo outputs are required.

For very long signal lines, and where balanced, or isolated, operation is required, Drawmer also can offer the DA6, which higher specification unit to the LA12

OPERATION

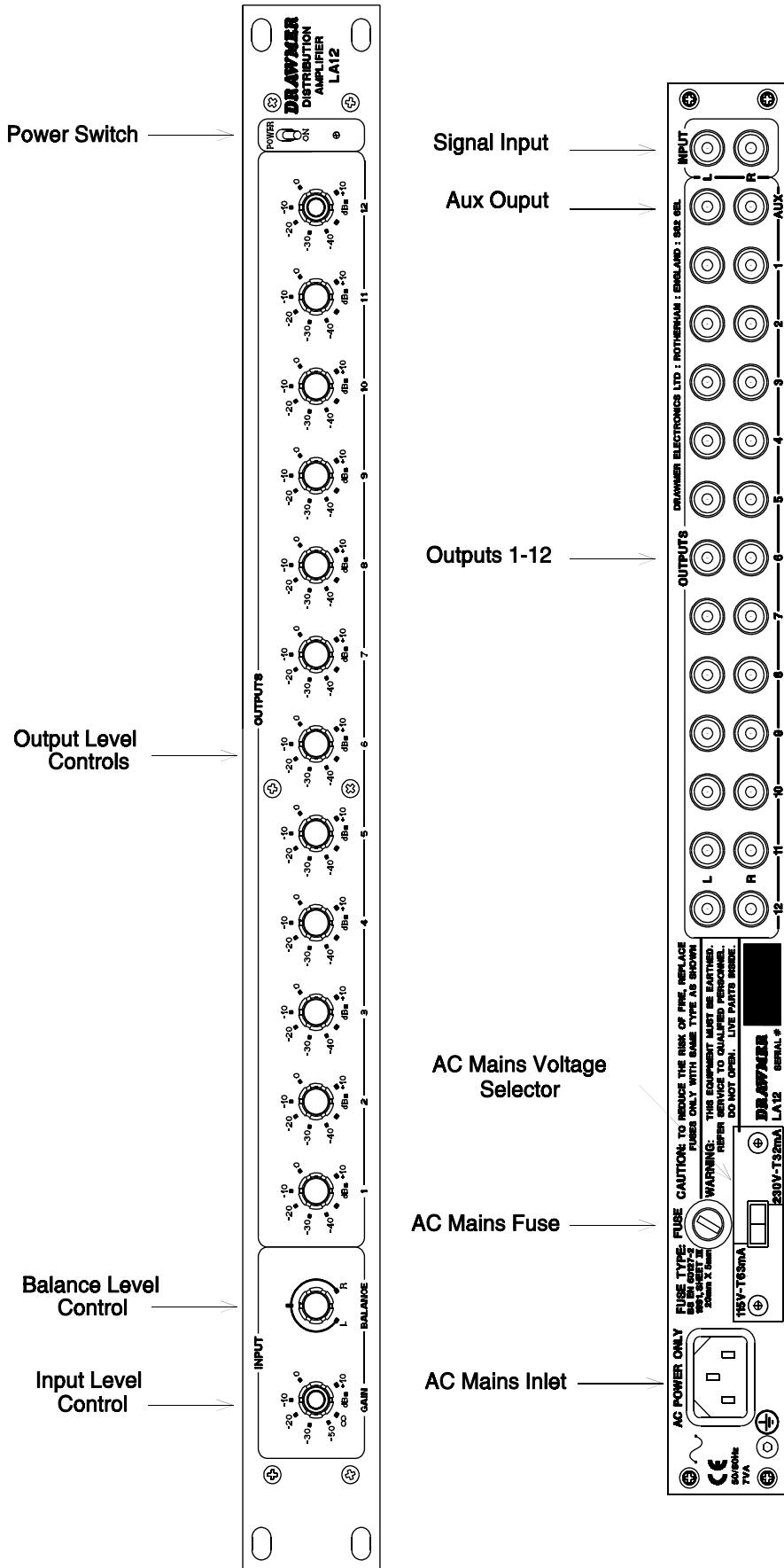
The LA12 has been designed for ease of use. It operates on input levels in the range -10dB to +10dB. The signal source should be connected to the rear panel sockets marked 'INPUT' Left & Right , and the 'OUTPUT' sockets should be similarly connected to their appropriate destinations. Each of the front panel controls adjust both Left and Right channels.

INPUT: The Input Level is determined by rotation of the 'Gain' control. 'Balance' control adjusts the stereo balance between Left and Right channels.

OUTPUT: The 'Output' controls, numbered 1 to 12, adjust the level at the corresponding output phono connector pair on the rear panel.

AUXILIARY OUTPUT: This output phono connector pair can be used to link to another LA12. The level of the auxiliary output is determined by INPUT GAIN and BALANCE controls.

FRONT & REAR PANEL LAYOUT



IF A FAULT DEVELOPS

For warranty service please call Drawmer Electronics Ltd. Or their nearest authorised service facility, giving full details of the difficulty. On receipt of this information, service or shipping instructions will be forwarded to you. No equipment should be returned under the warranty without prior consent from Drawmer or their authorised representative.

For service claims under the warranty agreement a service Returns Authorisation (RA) number will be given. Write this RA number in large letters in a prominent position on the shipping box. Enclose your name, address, telephone number, copy of the original sales invoice and a detailed description of the problem.

Authorised returns should be prepaid and must be insured. All Drawmer products are packaged in specially designed containers for protection. If the unit is to be returned, the original container must be used. If this container is not available, then the equipment should be packaged in substantial shock-proof material, capable of withstanding the handling for the transit.

CONTACTING DRAWMER

Drawmer Electronics Ltd., will be pleased to answer all application questions to enhance your usage of this equipment. Please address correspondence to:

Drawmer (Technical Help line) : Coleman St.: Parkgate : Rotherham : S62 6EL : UK

or, E-mail us on : tech@drawmer.co.uk

Drawmer dealers, Authorised service departments and other contact information can be obtained from our web pages on http://www.drawmer.co.uk

TECHNICAL SPECIFICATIONS

INPUT IMPEDANCE	22KOhm
INPUT GAIN	Max+10dB
OUTPUT GAIN	-40dB to +10dB
NOISE	Better than-100dB (ref +4dBv, Gain=0dB, @ 22Hz - 22KHz)
CROSSTALK	-67dB @ 10KHz (Input grounded, any channel output)
DISTORTION	0.008% @ 100Hz 0.015% @ 1KHz to 10KHz
BANDWIDTH	5Hz to 25KHz -1dB
POWER REQUIREMENTS	115Volt or 230Volt at 50-60Hz, 7 Watts
FUSE RATING	32mA for 230Volt, 63mA for 115Volt CONFORMING TO BS EN 60127-2:1991 SHEET III
FUSE TYPE	20mm x 5mm, Class 3 Slo-Blo, 250Volt Working
CASE SIZE	482mm (w) x 44mm (h) x 200mm (d)
WEIGHT (incl packaging)	3.4 Kgs

BLOCK DIAGRAM

