

LPP-1

Phono Equalizer Preamplifier

Operating Manual

Note:

Before installing your new LPP-1, please read this manual carefully as it will inform you of the LPP-1's specifications, proper installation procedures and operation procedures. Also included in this manual are guidelines on how to service and care for your new LPP-1.

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INTRODUCTION

The LPP-1 is a stand alone phono section preamplifier designed to amplify and equalize to the standard RIAA curve, moving magnet or high output moving coil phono cartridges. The LPP-1 is specifically designed to operate with the Cary Audio Design SLP-30 line state preamplifier as well as two Cary Audio Design SLP-30 line stage preamplifier as well as two Cary Audio Integrated Amplifiers (the SLP-30 and CAD-75I). The LPP-1 is a compact vacuum tube, RIAA, 40 dB gain stage. The RIAA equalization curve is derived from a passive RC circuit located between two gain stages. The tubes incorporated in the LPP-1 are 12AX7 dual triodes. The LPP-1 receives the required 12 VDC and 300 VDC voltages from the matching Cary preamp or integrated amplifier. There is a power cord with a DIN type connector on the end for this purpose. A separate stand alone power supply is available to permit the LPP-1 to be utilized with other than Cary products. The input impedance is factory selected at 47K. Installation is extremely simple and operation is "fool proof".

SPECIFICATIONS

DIMENSIONS:	7-3/4"W x 4"D x 3"H
WEIGHT:	4 lb.
INPUT IMPEDANCE:	47K purely resistive
INPUT CAPACITANCE:	150pf
OUTPUT IMPEDANCE:	12,000 ohms
INPUT TERMINATION:	Female RCA type
OUTPUT CONNECTION:	Female RCA type
POWER REQUIREMENTS:	12 volts DC at 1 amp 330 volts DC at 20ma
POWER RECEPTACLE CORD:	5 pin international standard DIN
TUBE COMPLIMENT:	2 - 12AU7 dual triodes
HUM AND NOISE:	85dB

**EQUALIZATION
CURVE:**

20Hz + 19.3dB, 1Khz 0dB, 20Khz -20dB

INSTALLATION

- Step 1: Plug power cord into female LPP-1 accessory jack on the rear of an SLP-30, SLI-30 or CAD-75I.
- Step 2: Plug turntable output connectors into respective left and right inputs and ground turntable ground wire.
- Step 3: Plug interconnects into respective left and right outputs and route to the auxiliary inputs on the rear of an SLP-30, SLI-30 or CAD-75I.

WARNING

Do not play your new LPP-1 with the cover removed. Voltages contained inside may be lethal!!!

UNPACKING

All shipping containers have been specifically designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the transport carrier immediately.

Carefully remove your new LPP-1 from its packing carton, and examine it closely for signs of shipping damage. It is recommended to save all original packing cartons to protect your amplifier from damage should you wish to store it or ship it for after-sales service.

WARRANTY CARD

Fill out the enclosed warranty registration card and return to Cary Audio Design with 10 days of original purchase. Keep your original sales slip with the packing cartons should you ever need it for reference. Failure to register warranty will limit the warranty to one year.

BREAK IN PERIOD

The tubes and capacitors take approximately 100 hours of music playing to fully settle-in for peak performance. The LPP-1 will seem sterile or thin sound right out of the box. After the first couple of hours you will notice increased depth and tighter bass. This break-in period defies all engineering theory, but is true with most audio amplifiers.

WARNING

Make sure the LPP-1 is unplugged from companion amplifier and/or preamplifier before servicing

UNITED STATES LIMITED WARRANTY

Cary Audio Design, Inc. warrants to the original United States purchaser for use in the United States, that this product shall be free from defects in material (except tubes and AF output transistors) or workmanship for three (3) years from the date of the original purchase.

During the warranty period, Cary Audio Design or an authorized Cary Audio Design service facility will provide free of charge both parts (except tubes and AF output transistors) and labor necessary to correct defects in material or workmanship.

To obtain such warranty service, the original purchaser must:

- (1) Complete and send in the warranty Registration Card.
- (2) Notify Cary Audio Designs as soon as possible after the discovery of a possible defect:
 - (a) The model number and serial number;
 - (b) The identity of the seller and the approximate date of purchase;
 - (c) A detailed description of the problem, including details on the electrical connection in the associated equipment and the list of such equipment.
- (3) Deliver the product to Cary Audio Designs or the nearest authorized service facility, or ship the same in its original container or equivalent, fully insured and the shipping charges prepaid.

Correct maintenance, repair and use are important to obtain performance from this product. Therefore, carefully read the Instruction Manual. This warranty does not apply to any defect that Cary Audio Design in its sole discretion determines is due:

- (1) Improper maintenance or repair, including the installation of parts or accessories that does not conform to the quality and the specifications of the original parts.
- (2) Misuse, abuse, neglect or improper installation.
- (3) Accidental or incidental damage.

WARRANTY DISCLAIMER

Except for the express warranties stated herein, Cary Audio Design disclaims all other warranties including, without limitation, all implied warranties of merchantability and fitness for a particular purpose.

EXCLUSIVE REMEDY

Notwithstanding the foregoing, the purchaser's exclusive remedy for any breach of warranty, express or implied, is limited to the repair or replacement of the defective unit or the refund of the purchase price, at the option of Cary Audio Design. Under no circumstances is Cary Audio Design liable for incidental or consequential damages. Any implied warranties imposed by law terminate one (1) year from the date of purchase.

FOREIGN PURCHASERS

Cary Audio Design warrants its merchandise to purchasers in the United States for use in the United States. It provides no other warranties. If you are a foreign purchaser, consult with your dealer to determine whether your dealer provides any warranty.

The foregoing constitutes Cary Audio Design's entire obligation with respect to this product, and the original purchaser and any user or owner shall have no other claim for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you.

This warranty gives legal rights and you may also have other rights which vary from state to state