

**MANLEY**

**LABORATORIES, INC.**

**OWNER'S MANUAL**

**LANGEVIN  
150 WATT  
DUAL MONOBLOCK  
AMPLIFIER**

**MANUFACTURED BY:  
MANLEY LABORATORIES, INC.  
13880 MAGNOLIA AVE.  
CHINO, CA. 91710  
TEL (909) 627-4256  
FAX: (909) 628-2482**

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## INTRODUCTION

### **THANK YOU!...**

for choosing Manley Laboratories' Langevin 150 Watt Solid State Amplifier. Designed around the concept that less is more, the Langevin 150 Watt Solid State Amplifier uses the best available parts with the shortest, cleanest, signal path possible. With the use of our own C.N.C. milling machine, we can provide you with a superb sounding machine with elegant packaging. Please take a few moments to read through this manual, there may be features and information about this amplifier that you do not know, and it is in your best interest to do so.

Thank you again, and please enjoy!

### **GENERAL NOTES**

#### **LOCATION & VENTILATION**

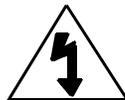
The Langevin 150 Watt Solid State Amplifier must be installed in a stable location with ample ventilation. The unit is designed as a standard 2 u rack mount unit. Be certain to allow for ample ventilation around the unit. Do not place directly above other rack mount equipment that dissipates a significant amount of heat. We also recommend that the amplifier if driven by a preamplifier be placed at least 10 inches apart. Do not place amplifiers directly on high pile carpet or any other surface that will prevent proper ventilation.

#### **WATER & MOISTURE**

As with any electrical equipment, this amplifier should not be used near water or moisture. If liquid enters the amplifier, it must be immediately returned to your dealer for servicing.

#### **SERVICING**

The user should not attempt to service the amplifier beyond that described in the owner's manual. Refer all servicing other than biasing and tube replacement to Manley Laboratories



**WARNING!**



**TO PREVENT THE RISK OF ELECTRIC SHOCK  
DO NOT OPEN THE CABINET  
REFER SERVICING TO  
QUALIFIED PERSONEL**

## MAINS CONNECTIONS

The Manley Laboratories' Langevin 150 Watt Solid State Amplifier requires a significant amount of AC current to operate properly. For best operation, plug the amplifier directly into the wall outlet, avoiding extension cords and other devices which restrict the current supply to amplifier. If extension cables are required, be certain that they are high quality, heavy duty (14-12 guage) cables.

Your amplifier has been factory set to the correct mains voltage for your country. The voltage setting is marked on the serial badge, located on the rear panel. Check that this complies with your local supply.

Export units for certain markets have a moulded mains plug fitted to comply with local requirements. If your unit does not have a plug fitted the coloured wires should be connected to the appropriate plug terminals in accordance with the following code.

GREEN/YELLOW	EARTH	terminal
BLUE	NEUTRAL	terminal
BROWN	LIVE	terminal

As the colours of the wires in the mains lead may not correspond with the coloured marking identifying the terminals in your plug proceed as follows;

The wire which is coloured GREEN/YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked by the letter L or coloured RED.

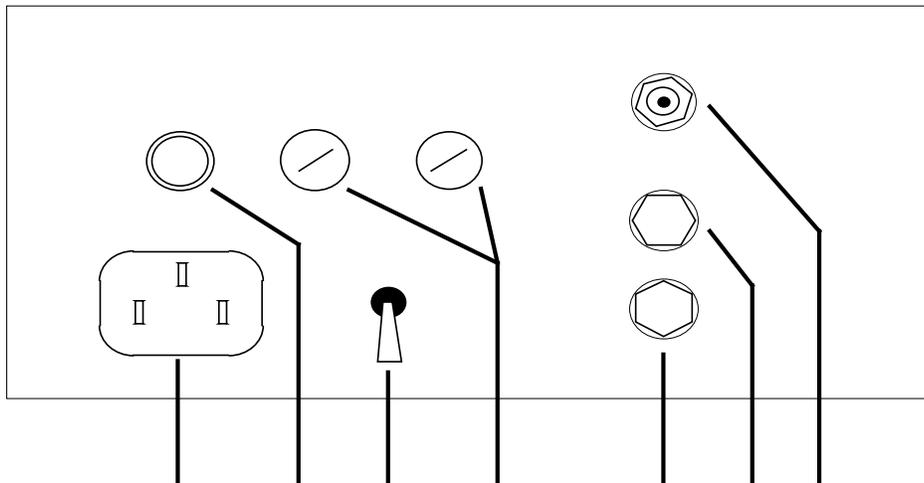
**DO NOT CONNECT/SWITCH ON THE MAINS SUPPLY UNTIL ALL OTHER CONNECTIONS HAVE BEEN MADE.**

## CONNECTING YOUR AMPLIFIER

Setting up your amplifier is rather easy.

1. Connect all source components (turntable, CD, Tuner, Tape DAT, etc.) to your preamplifier.
2. Connect the interconnects from the output of the preamplifier or switching center to RCA input.
3. Connect the hot or "+" speaker cable to the top binding post and the common or "-" speaker cable to the bottom binding post (See diagram III). Ensure that the other end of the cable is connected correctly to the speaker. Tighten the binding posts by hand. **NEVER SHORT CIRCUIT THE OUTPUT CONNECTORS!!!**
4. Turn on Preamplifier and any source components you plan to use.
5. Ensure that the "mains" switch on the front panel is in the "off" or "0" position.
6. Plug amplifier into wall outlet.
7. Turn on amplifiers and enjoy.

## REAR PANEL



- A IEC MAINS CONNECTOR** Standard mains connector. Connect an IEC mains cable to a 50/60 Hz AC receptacle.
- B MAINS FUSE** Use a 3 amp (110, 120 mains voltage) or a 2 amp (220, 240 voltage) SLO-BLO fuse.
- C GROUND BINDING POSTS** Use to connect Chassis ground (Black) to Circuit Ground (Green)
- D RAIL FUSES** Use only a 5 Amp FAST BLOW fuse in each voltage rail.
- E OUTPUT BINDING POST (-)** Negative or common speaker terminal binding post.
- F OUTPUT BINDING POST (+)** Positive or hot speaker terminal binding post.
- G INPUT RCA** Input signal connector.

## OPERATIONAL NOTES

### SWITCHING ON

With monoblocks we suggest that you turn on one amplifier first allowing about thirty seconds to pass before powering the other. Also, ALWAYS turn ON your preamplifier or console FIRST and let this settle before turning on the amplifiers.

### RUNNING

It is not recommended that you leave your amplifier permanently switched on. This only wastes electricity. Your amplifier uses all solid state components and reaches peak operating condition in approximately 30 minutes.

### PROTECTION CIRCUITRY

As with all solid state amplifiers it is very important to NEVER short the output terminals of the amplifier or to drive the amplifier with a very low load. **Never drive the amplifier into less than a 2 Ohm load.** Each channel is equipped with rail fuses which should blow open in the case of a short circuit. The amplifier is also equipped with voltage-current limiting protection circuitry to prevent damaging the amplifier or speakers.

## SPECIFICATIONS

Output Power		
20 Hz - 20 KHz,	8 Ohm Load	130 Watts .15% T.H.D.
	4 Ohm Load	225 Watts .15% T.H.D.
Input Sensitivity		1 Volt
Input Impedance		49 Kohm
Output Impedance		< 1 Ohm
Power Consumption		50 W Quiescent 360 W Peak (4 ohm) 250 W Peak (8 ohm)
Mains Fuse		100, 110, 120V = 5A (Slo-Blo) 220, 240 V = 3A (Slo-Blo)
Dimensions (Each channel)		W=9.5, D=12.7, H=3.50 inches
Weight (Each channel)		20 lbs.

# WARRANTY

All Manley Laboratories equipment is covered by a limited warranty against defects in materials and workmanship for a period of 90 days from date of purchase to the original purchaser only. A further optional limited 5 year warranty is available to the original purchaser upon proper registration of ownership within 30 days of date of first purchase.

Proper registration is made by filling out and returning to the factory the warranty card attached to this general warranty statement, along with a copy of the original sales receipt as proof of the original date of purchase. Only 1 card is issued with each unit, and the serial number is already recorded on it.

If the warranty registration card has already been removed then this is not a new unit, and is therefore not warranted by the factory. If you believe this to be a new unit then please contact the factory with the details of purchase.

This warranty is provided by the dealer where the unit was purchased, and by Manley Laboratories, Inc. Under the terms of the warranty defective parts will be repaired or replaced without charge, excepting the cost of tubes. No warranty is offered on tubes, unless:

1. a Manley Laboratories preamplifier is used with a Manley Laboratories amplifier, and
2. the warranty registration card is filled out.

In such a case a 6 month warranty on tubes is available with the correct recording of the serial number of the preamplifier on your warranty registration card.

If a Manley Laboratories product fails to meet the above warranty, then the purchaser's sole remedy shall be to return the product to Manley Laboratories, where the defect will be repaired without charge for parts and labour. The product will then be returned via prepaid, insured freight, method and carrier to be determined solely by Manley Laboratories. All returns to the factory must be in the original packing, (new packing will be supplied for no charge if needed), accompanied by a written description of the defect, and must be shipped to Manley Laboratories via insured freight at the customer's own expense. Charges for unauthorized service and transportation costs are not reimbursable under this warranty, and all warranties, express or implied, become null and void where the product has been damaged by misuse, accident, neglect, modification, tampering or unauthorized alteration by anyone other than Manley Laboratories.

The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of the expressed warranty. All warranties apply only to Manley Laboratories products purchased and used in the USA.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

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

# WARRANTY REGISTRATION

We ask that you please fill out this registration form and send the bottom half to:

MANLEY LABORATORIES  
REGISTRATION DEPARTMENT  
13880 MAGNOLIA AVE.  
CHINO CA, 91710

Registration entitles you to product support, full warranty benefits, and notice of product enhancements and upgrades. You MUST complete and return the following to validate your warranty and registration. Thank you again for choosing to use Manley Laboratories.

MODEL \_\_\_\_\_ SERIAL No. \_\_\_\_\_

PURCHASE DATE \_\_\_\_\_ SUPPLIER \_\_\_\_\_

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*PLEASE DETACH THIS PORTION AND SEND IT TO MANLEY LABORATORIES*

MODEL \_\_\_\_\_ SERIAL No. L150 \_\_\_\_\_

PURCHASE DATE \_\_\_\_\_ SUPPLIER \_\_\_\_\_

NAME OF OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_

Serial #'s of Associated Manley Laboratories Equipment \_\_\_\_\_

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