

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 Manley Laboratories.

MODEL _____ SERIAL No. _____

PURCHASE DATE _____ SUPPLIER _____

PLEASE DETACH THIS PORTION AND SEND IT TO MANLEY LABORATORIES

MODEL _____ SERIAL No. _____

PURCHASE DATE _____ SUPPLIER _____

NAME OF OWNER _____

ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE NUMBER _____

Serial #'s of Associated Manley Laboratories Equipment _____

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.

SPECIFICATIONS

Vacuum Tubes:	1 x 6072A, 1 x 12AU7, 1 x 6350
Gain with variable feedback set at 0	adjustable up to 75 dB
Input Impedance	200 Ohm, transformer coupled 1:8
Output Impedance	120 ohms
Frequency Response (+/- .5 dB)	20 Hz - 80 KHz
T.H.D. @ 60 dB	0.20%
Power Consumption	24 Watts

OPERATIONAL NOTES

SWITCHING ON

The power switch is located on the right hand corner of the front panel. Flip the switch up to turn on the preamplifier and down to turn off the preamplifier.

RUNNING

It is not recommended that you leave your preamplifier permanently switched on. This only wastes electricity and tube life. Your preamplifier has solid state rectification and reaches peak operating condition in approximately 30 minutes.

TUBELIFE

As with all tubes, their quality degrades with age. This is due to cathode emission, a natural process found in all tubes. We recommend that you have your preamplifier checked every 4-5 years, depending on usage, usually the preamplifier will require re-tubing after this time has elapsed. Increased noise or tube "rush" is an indication that you should retube. Premium selected tubes can always be purchased at Manley Labs, and at very reasonable prices too!

SPECIAL NOTES

The 60 dB Microphone Preamplifier is optimised for use with dynamic or ribbon mics or other lower output microphones or low level programme material. We also build excellent 40dB mono and dual-mono (2 channel) versions which suit most of the popular condensor mics under normal recording conditions. Ask your dealer or us here at Manley Labs which model is right for your needs. We are always happy to provide you with technical assistance.

REAR PANEL

A FUSE HOLDERS Replace with 1A SLO-BLO fuse only.

B IEC MAINS SOCKET Standard IEC mains socket (120/240 VAC)

C OUTPUT (XLR) Unbalanced capacitor coupled

PIN 1 & 3 ground

PIN2 hot (standardly shipped)

D INPUT (XLR) Balanced transformer coupled

PIN1 - ground

PIN2 - positive going phase(+)

PIN3 - negative going phase (-)

FRONT PANEL

- A PHASE SELECT SWITCH** Select between 0 degrees and 180 degrees phase on the balanced XLR input. Set in the middle position to activate the direct (front access) input.
- B DIRECT INPUT** This 1/4 inch phono jack input is activated when the phase select switch is in the direct (middle) position.
- C VARIABLE FEEDBACK** Adjusts the feedback and gain therefore, by 2 dB steps. It is recommended that this switch be set for the least necessary gain for best signal to noise ratio and least "rush".
- D INPUT ATTENUATOR** Use this control to allow the desired amount of input signal into the preamplifier.
- E PHANTOM SWITCH** Switch ON to engage 48V phantom power to the input XLR for use on phantom powered microphones. Be certain that you are using a phantom powered microphone before switching this on, otherwise you will damage the input transformer's primary windings!
- F LED PHANTOM POWER INDICATOR** Illuminates when the phantom power is activated.
- G LED POWER INDICATOR** Illuminates when the unit is powered up.
- H POWER SWITCH** Switch up to turn on the power, down to turn the power off.

CONNECTING YOUR PREAMPLIFIER

The rear connections of the 60 dB Microphone preamplifier consists of one 3 Pin input XLR and one 3 Pin output XLR.

The input is a transformer-coupled balanced input. Phase is selectable on the front panel. In the 0° switch setting, the standardly shipped pin out is:

PIN1 - ground

PIN2 - positive going phase (+)

PIN3 - negative going phase (-)

The 180° phase setting will reverse pins 2 &3.

The input impedance of the transformer coupled input is 200 ohms.

Phantom 48V power is switchable via locking switch located on the front panel. Do not engage this switch unless you are using a balanced mic cable and a microphone which requires phantom power!

A HIGH IMPEDANCE DIRECT input is located on the 1/4" jack on the front panel for use with guitars and synths.

This input is wired:

TIP: HOT

SLEEVE: GROUND

The gain is internally preset for 60dB of gain at the 0 (maximum) feedback setting. Adjustment for up to 75dB of gain is easily achieved by adjusting the blue trimpot located on the audio board inside the unit. To change the gain, simply remove the top cover and turn the trimpot to the desired setting using a small screwdriver.

The standard output is unbalanced. The standardly shipped pinout is:

PIN1 - ground

PIN2 - hot(+)

PIN3 - ground

This unit is supplied with an internal voltage change-over switch. To change the voltage between 110,120 and 220,240; remove the cover and rotate the top section of the change-over switch with a small flat screwdriver. It is a good idea to mark the unit to indicate which mains voltage is selected if travelling between countries.

MAINS CONNECTIONS

Your preamplifier 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.

INTRODUCTION

THANK YOU!...

for choosing the Manley Laboratories *60 dB Microphone Preamplifier*. Designed by David Manley, the 60dB Microphone Preamplifier uses the best available parts with the shortest, cleanest, signal path possible. Please take a few moments to read through this manual, there may be features and information about this unit that you are not familiar with.

Thank you again, and please enjoy!

GENERAL NOTES

LOCATION & VENTILATION

The 60 dB Microphone Preamplifier must be installed in a stable location with ample ventilation. It is recommended, if this unit is rack mounted, that you allow enough clearance on the top and bottom of the preamp such that constant movement of air can flow through the ventilation slots.

WATER&MOISTURE

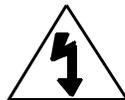
As with any electrical equipment, this preamplifier should not be used near water or moisture.

SERVICING

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

SPECIALNOTES

Tubes may become loose during transit. Straighten and press down each tube before plugging the preamplifier into the mains socket. Furthermore, do not touch the tubes after the preamplifier has been switched on, as the tubes become very hot during operation and should only be handled after the power has been turned off and the tubes have cooled.



WARNING!



**TOPREVENTTHERISKOFELECTRICSHOCK
DONOTOPEN THE CABINET
REFERSERVICINGTO
QUALIFIEDPERSONEL**

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MANLEY

LABORATORIES, INC.

OWNER'S MANUAL

60 dB MICROPHONE PREAMPLIFIER

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