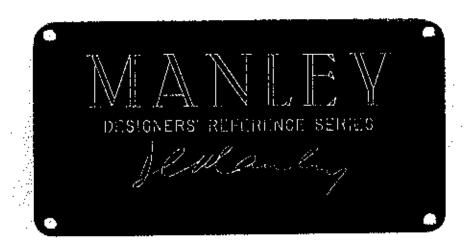
REFERENCE MANUAL - MANLEY 160 MONOBLOCK-



INTRODUCTION

Thank you for selecting the Manley 160W Monoblocks.

Please read through this reference manual so you will know how to operate your Manley 160W monoblocks properly. After you have finished reading the instructions put them in a safe place for future reference.

We wish you many hours of musical pleasure!

GENERALNOTES

HEEDWARNINGS

All warnings on the amplifier and in the reference manual must be adehered to.

FOLLOWINSTRUCTIONS

All operating and use instructions in the reference manual must be followed.

WATER& MOISTURE

The amplifier should not be used near water or moisture.

LOCATION & VENTILATION

The amplifier must be installed in a stable location and should be situated such that its location does not interfere with its proper ventilation. If the amplifier is placed in a built-in installation ensure that there is adequate room for a supply of air to flow through the ventilation openings. Do not site the amplifier next to heat sources such as radiators, stoves or other appliances.

POWER SOURCES

The amplifier should be connected to a supply only of the type described in this reference manual or as marked on the amplifier.

SERVICING

The user should not attempt to service the amplifier beyond that described in the reference manual. For all other servicing contact the Manley service department.

WARNING

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

MAINS CONNECTION

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	LJVE	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 BLATE must be connected to the terminal in the plug which is marked by the letter Nor 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.

DONOT CONNECT/SWITCH ON THE MAINS SUPPLY UNTIL ALL OTHER CONNECTIONS HAVE BEEN MADE.

CONNECTING YOUR AMPLIFIER

Setting up your amplifier is rather easy.

- Connect all source components (turntable, CD, Tuner, Tape DAT, etc.) to your preamplifier.
- 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 diagarm III). Ensure that the other end of the cable is connected correctly to the speaker. Tighten the binding posts by hand. If you use a nut-driver (3/8") do not over-tighten the posts or you may break the connection inside the amplifier.
- 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 one amplifier at a time so as not to trip a circuit breaker or blow a fase.
- 8. Turn up the volume and enjoy.

FRONTPANEL

Your MANLEY 160 front panel is depicted in diagram 1.

The large rocker switch engages power to the unit when switched in the up position. The red LED on the right of the panel will illuminate when the unit is powered and running.

The small toggle switch located in the middle of the panel places the amplifier in triode or tetrode. The switch, when in the down position, operates the amplifier in tetrode, providing the greatest amount of power. The switch, when in the up position, operated the amplifier in triode. When in triode, the unit has approximately half the power of tetrode, however, most feel that tubes running in triode perform better sonically. Let your ears make the decision!

POWER SWITCH (UP ON)

TETRODE / TRIODE SWITCH (UP FOR TRIODE)

POWER INDICATOR

FRONT PANEL

MANLEY 160

TOPVIEW

Bias adjustment and measurement is made via the top of the amplifier. Since tube bias current varies with use, it is important to measure the bias on a regular basis (Monthly). Please refer to the section on biasing the amplifier in this manual.

The fuse holder on the top panel is designed to protect the amplifier from unexpected failure. If the fuse should blow, replace it with only a 5 AMP SLKO-BLO fuse.

Be certain to use only KT90's as the output tubes in this unit and that the driver tube is a 12BH7 and the input tube is a 12AT7.

DONOTADJUST THE CONTROLLOCATED BETWEEN THE INPUT AND DRIVER TUBE. THIS ADJUSTMENT IS PRESET AND SHOULD NOT BE ALTERED.

TOP VIEW MANLEY 160

Using it voltabilities thegative proberts pound before 30 years 30,50 at mediscement board 11.5

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Meosurement Point #1

Megauremant Point #2

Measurement Point #3

Megsurament Point #4

DIAGRAM IS

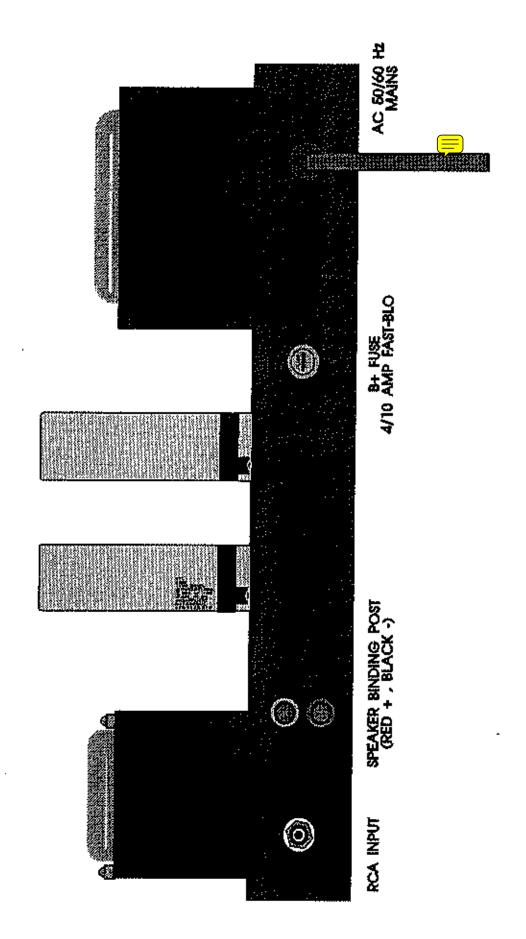
REARPANEL

The RCA connector is on the left of the panel as depicted in diagram 111. A standard RCA cable sould connect your preamp to your amplifier via this connector.

The speaker binding post are identified by color. The red binding post is positive and should be connected to the positive terminal of your speaker. The black binding post is negative and should be connected to the negative terminal of your speaker.

The fuse holder located in the middle of the rear panel is designed to protect your amplifier from excessive current draw by the output tubes. If this fuse should "blow" replace only with the identical size and type fuse. If the fuse happens to blow often, check your tube biases as explained in this manual. A blown B+ fuse is often the sign of a bad or worn out tube.

The AC cord should be connected to a 50 to 60 Hz outlet. The rear panel of the amplifier should tell you the voltage setting for proper operation.



BIAS PROCEDURE

Your amplifier uses a fixed bias system that requires very little attention. If you wish to adjust or check the bias you will require a voltmeter and a suitable load on the speaker outputs (your exsisting speakers form an ideal load).

Refer to diagram II for the necessary procedure to measure the bias.



If a tube fails in the circuit it may automatically blow the B+ fuse which is located at the rear of the amplifier. This must be replaced when the replacement tube has been fitted.

If you have difficulty in measuring the bias or do not feel comfortable in doing so, please refer the duty to a competent technician or your dealer.

WARNING ELECTRIC SHOCK HAZARD-LETHAL VOLTAGES EXSIST WITHIN THE EQUIPMENT EVEN AFTER THE UNIT HAS BEEN DISCONNECTED FROM THE MAINS SUPPLY.

UNDERNO CIRCUMSTANCES SHOULD AN UNQUALIFIED PERSON REMOVE COVERS OF AN AMPLIFIER.

DO NOTTOUCH THE TUBES WHEN THE UNIT IS IN OPERATION EXTREMELY HIGH TEMPERATURES EXSIST-BEFORE SERVICING OR REPLACING TUBES ALLOW THE EQUIPMENT TO COOL DOWN.

SPECIFICATIONS

AMPLIFIER:

MANLEY 160 MONOBLOCK

TUBES:

KT90 - OUTPUT, 4 REQUIRED J2BH7 - DRIVER, I REQUIRED 12AT7 - INPUT, I REQUIRED

POWER OUTPUT

TRIODE

HOWATTS INTO SORM LOAD

TETRODE

180 WATTS INTO 5 OHM LOAD

FREQ.RESPONSE 10Hz - 40KHz +/- 0.5 dB @ TWatt

INPUT SESITIVITY | 1 Vote

INPUT IMPEDENCE 82.5 KOHMS

POWER CONSUMPTION

QUIESCENT -150 WATES

PULLPOWER

380 WATTS in tetrode with 8 Ohm load

FULL POWER

260 WATTS in triode with 8 Ohm load

DIMENSIONS

8 (D) x 15.8 (W) x 6.7 (H) inches

WEIGHT

28 lbs