

Quicksilver Audio Mono 100 Amplifier

Operating Instructions

Thank you for purchasing the Quicksilver Audio Mono 100s. These amplifiers are engineered to have a very wide bandwidth, extremely low distortion and superior dynamic range.

The output transformer used in this amplifier is based on the best designs of the past but uses superior new materials to achieve a very high level of performance. The high frequency characteristics of this transformer are very stable. KT88 or KT90 output tubes may be used without the need for circuit changes or compensation adjustments.

This is an all tube design and uses no circuit boards or transistors.

PLACEMENT

The Mono 100 Amplifiers should have at least 6 inches of ventilation space on either side and at least 6 inches above them. If this is not possible, then use a fan for cooling.

SPEAKER CONNECTION

Five-way binding posts are used for speaker connection. For better sonic performance, we recommend using the screw-down part of the post rather than banana plugs to connect your speaker wire. Make sure the ends of the speaker leads do not touch each other. The rating on the back of your speaker system will determine whether you use the 4 or 8 ohm tap for the positive lead. Connect the negative or ground to the black post labeled C.

There is a diagram on the bottom of the amp that identifies the three posts.



SYSTEM GROUNDING

Your Mono Amplifiers come with three pronged grounded AC plugs. In some systems, where the preamp is also grounded, a ground loop may appear as a low level hum. Using an adaptor on the AC plug of each amplifier, to lift the ground, will solve this problem.

3 AMP SLO-BLO FUSE

Do not use larger than a 4 amp fuse. If a fuse blows, replace and check output tube bias. If there is a large change, then a tube is probably damaged. If the bias has not changed then the cause of the fuse blowing may be due to other problems, such as poor system grounding, unstable preamp, shorted speaker, etc. Interchanging the amps between channels will help localize the problem to either the system or the amplifier.

TUBES

The input tubes in this amplifier were chosen for their specific performance characteristics. These tubes should last between one and two thousand hours. We can only guarantee the performance of this unit when used with input tubes supplied by Quicksilver.

Quicksilver ships the Mono 100 Amplifiers with matched KT88 output tubes but the Mono100 can use KT90s as well. The output tubes should be matched.

Output tubes will need to be replaced periodically. When a degradation in sound occurs, the fuse blows repeatedly, or the tubes will not hold their bias anymore it is time for new output tubes. We recommend purchasing tubes from Quicksilver Audio or your dealer and we recommend keeping extra fuses and an extra output tube on hand.

OUTPUT TUBE BIAS SETTING

Output tube bias should be set immediately when new tubes are put in; then again in 15 minutes; and periodically the first few times of using the amplifiers. After that the bias should be checked monthly.

The meter included should be set on the 200 m DCV scale

With the meter set on this scale and the meter wires plugged into the bias meter jacks, the meter will read millivolts. Recommended bias is 80 millivolts and the maximum bias for each tube type is as follows:

KT88	100 millivolts
KT90	120 millivolts

The bias control is between the output tubes near the power transformer.

To adjust the bias you will need a slot-head screwdriver. Adjust by turning clockwise to increase bias; counterclockwise to decrease bias. **Remember that bias set above the recommended values will wear out your tubes prematurely.**

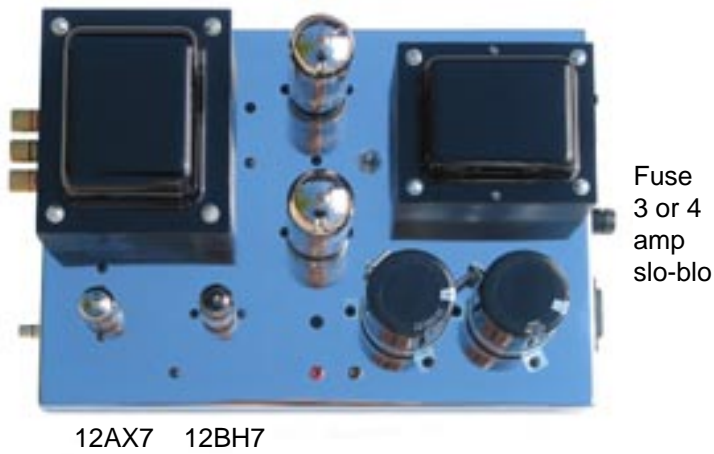
WARNING

This device has very high internal voltages. Never operate with the bottom removed!

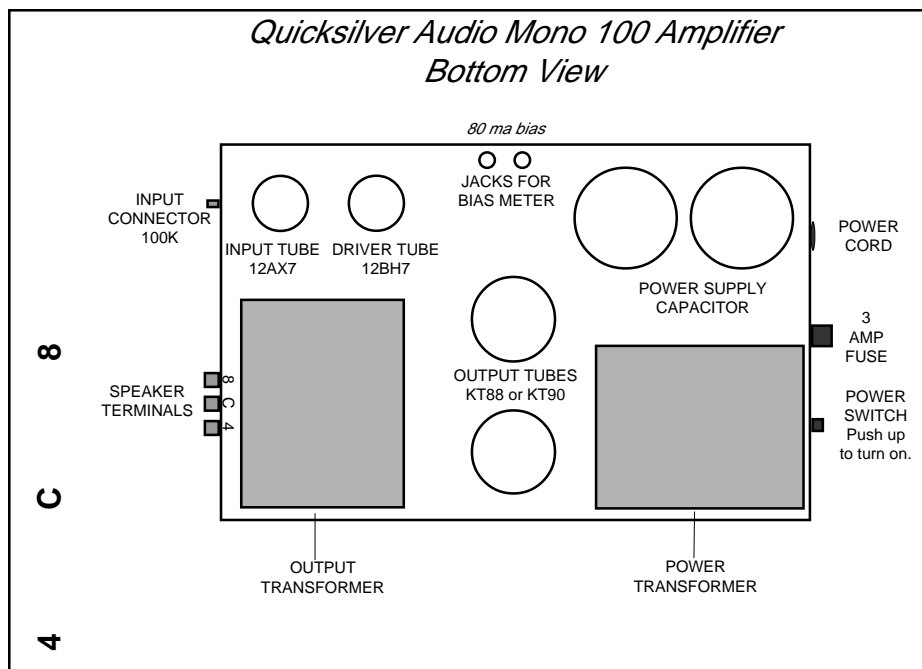
Never operate your amplifiers with the speakers disconnected.

To prolong the life of your amplifiers, never turn them off and then on within a short period of time (45 seconds.)

Mono 100 Amplifier:



The following diagram is on the bottom of each amplifier:



**Quicksilver Audio Mono 100 Amplifier
SPECIFICATIONS**

Power Output	100 watts into 4 or 8 ohms
Power Bandwidth	18 Hz to 80 KHz
Damping Factor	19
Input Sensitivity	1.5 volts
Input Impedance	100 K ohms
Power Consumption	115 watts at idle 300 watts at full power
Tube Complement	1 - 12AX7 input 1 - 12BH7 driver 2 - KT88 or KT90 outputs
Dimensions	5 1/2' high x 14 1/2" deep x 9 1/8" wide
Finish	Chrome chassis Black transformers and capacitors
Weight	31 lbs., 37 lbs. shipping
Warranty	3 years parts and labor Tubes 90 days

WARRANTY

Quicksilver Audio warranties your amplifiers for a period of 3 years from the date of purchase (90 days on tubes.) Parts and labor are provided free of charge as long as the failure was not caused by misuse, accident or negligence. Shipping to the factory is not included.

Retain at least one packing carton in case a unit needs to be returned for service.

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