# *Quicksilver Audio Mid Mono Amplifier Operating Instructions*

Thank you for purchasing the Quicksilver Audio Mid Mono Amplifiers. 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. Many different 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 Mid Mono 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.



#### 2 AMP SLO-BLO FUSE

Standard fuse value must not be exceeded. If a fuse blows, replace and check output tube bias. If there is a large change, then an output 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 Mid Mono Amplifiers with matched EL34 tubes but many different output tubes can be used. 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 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.

There is a small black push button and a small red indicator light at the outer edge of the amplifier near the center output tube. When the button is pushed and the bias set correctly, the red indicator will light dimly. Increasing the bias will make the light brighter and decreasing the bias will make the indicator no longer light. The relative brightness of the indicator is not critical however if the bias is too high, the indicator will be very bright.

If the indicator will not light, even with the bias control turned completely clockwise, then one or both output tubes are dead. If the indicator light will not go off, even with the contol turned completely counterclockwise, then an output tube is shorted and the amplifier should be turned off immediately. in either case the output tubes need replacing. Replace the output tubes as matched pairs—matched pairs will sound better and last longer.

#### WARNING

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

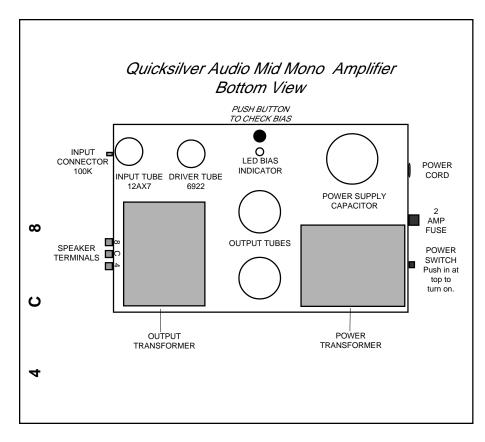
Never operate your amplifers with the speakers disconnected.

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

MidMono Amplifier:



The following diagram is on the bottom of each amplifier:



# Quicksilver Audio Mid Mono Amplifier SPECIFICATIONS

Power Output Power Bandwidth Input Sensitivity Input Impedance Power Consumption	1.25 volts 100 K ohms
Tube Complement	1 - 12AX7 input 1 - 6922 driver 2 - EL34, 6L6, 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 Warranty	28 lbs., 32 lbs. shipping 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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