

# **KWA 99 Power Monoblock Amplifier**

## **Owner's Manual**



Manufactured by ModWright Instruments, Inc.  
21919 399th St., Amboy, WA 98601  
USA

[www.modwright.com](http://www.modwright.com)

## **PLEASE READ FIRST:**

*General guidelines explain operation and protection circuitry of the amplifier.*

- **Startup:**
  - To power the unit up, be sure that a power cord is firmly inserted in the power IEC. Depress the power button on the front of the amp.
  - If the unit does not power up at this point, check to be sure that power plug is firmly seated and that you are connected to the proper mains voltage. I.E. US/Canada 120V, HK 220V, Europe and other countries 220V-240V.
- **Protection Circuitry:**
  - This unit has multiple levels of circuit protection, intended to protect the amplifier and speaker from potential damage.
  - **DC input protection** is served by transformer input coupling.
  - **Thermal overload protection** is served by internal thermal overload protectors. Upon thermal overload, the unit will simply shut down. There will be no red lights, the unit will simply power down as the overload circuit cuts all power to unit.
  - **Short-circuit and over-current protection** is served by our unique and proprietary TSP™ Total Silent Protection circuitry which resides outside of the signal path. When protection is triggered, channel or channels effected simply mute. To reset, unplug the power cord wait thirty seconds, reinsert the power cord and power back up. **DO NOT** plug and unplug RCA signal connectors when amp is on or turn amp on without RCA or XLR signal connectors in place. If you do plug or unplug signal connectors (RCA or XLR) while amp is on, protection circuitry may engage. This will be apparent by the fact that one or both channels are muted. If so, unplug the power cord let sit for 30 seconds, reinsert the power cord and power back on again.
- **Fuses:**
  - *All fuses are internal and are only to be replaced at the factory or by factory authorized technician. There are no user serviceable parts inside and opening unit will void the factory warranty.*

## **General Operation:**

*Note: It is always recommended that you power the amplifier on last, when powering up your audio system. When powering your audio system down, it is always recommended to power the amplifier off first.*

### **Powering On:**

- When first turned on, blue LEDs inside of the unit will flash on/off for approximately 45 seconds. It is during this time that the amp is warming up and stabilizing. After this, lights will stay blue and the amp will be on. There is a toggle to disable the blue internal LEDs. If this is turned off, the LEDs will not flash at startup.
- It is always recommended that you power the amplifier *on last*, when powering up your audio system. When powering your audio system down, it is always recommended to power the amplifier *off first*.

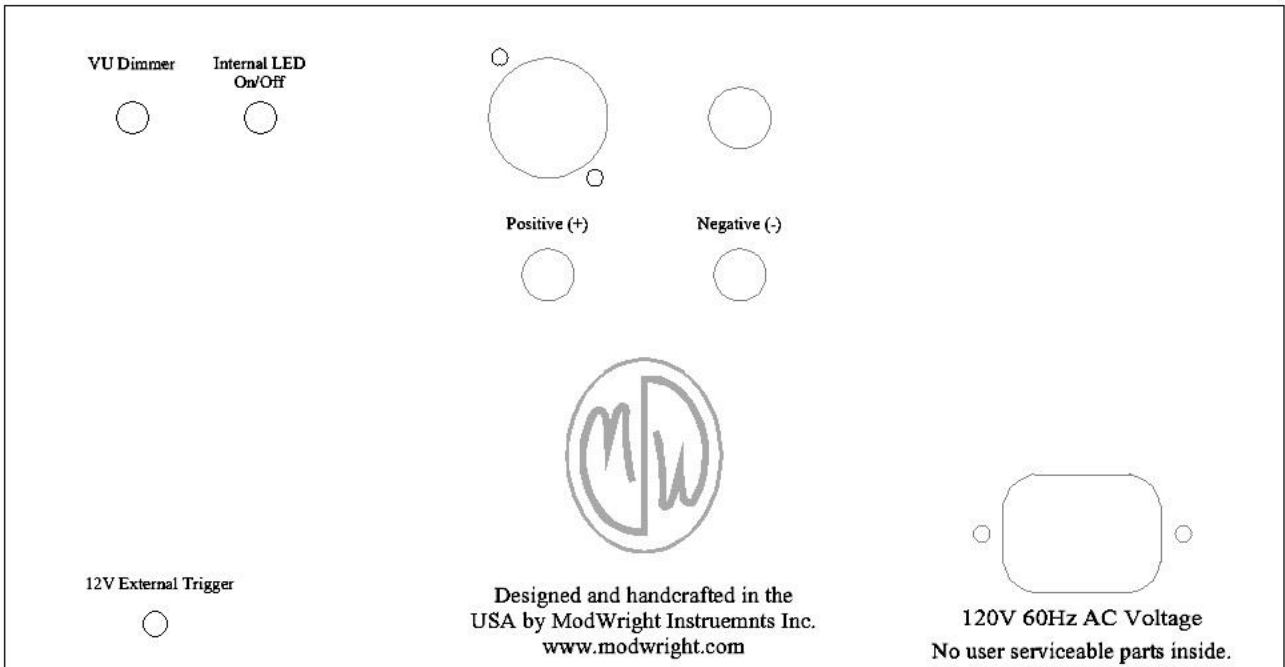
### **Operation:**

- The KWA 99 is designed to provide over *100W into an 8 ohm* speaker load and *200W into a 4 ohm* speaker load. It has been tested into 2 ohm loads and found to perform well. If the speaker load represents TOO low of an impedance, the amp will simply protect itself by muting due to its over-current protection circuitry.

### **LED ON/LED OFF Switch:**

- You will find on the back of the amplifier, a switch labeled LED ON/ LED OFF. This switch turns on/off the internal blue LEDs. This may be done at any time and has no impact on sound of the amplifier.

## Connections:



- Inputs: One RCA; One XLR. RCA and XLR inputs are transformer coupled to input stage with floated ground. Connect to preamp outputs.
- Outputs: Positive (+) – Red, and Negative (-) - Black 5-way binding posts. Connect to speaker binding posts.
- Internal Led On/Off Switch: Turns internal LED's On/Off.
- VU Dimmer knob, adjusts brightness of VU meter, dim or off.
- 12V External Trigger mini input jack. For external Trigger on/off.
- Mains power inlet. Connect to power mains of appropriate voltage. If labeled 120V, plug into 120VAC mains outlet. If labeled 220V or 240V, then plug into appropriate AC mains outlet. **ALWAYS USED GROUND AC POWER CORD.**

## **Specifications:**

### **Power Ratings:**

- 100W @ 8 ohms (Stereo)
- 200W @ 4 ohms (Stereo)

### **Technical Specifications:**

- Frequency Response: 10Hz - 150Khz (+0, -1dB)
- Noise Floor: -90dB (Unweighted)
- Gain: 26dB
- Input Impedance: 47K
- .05% THD

### **Weight and Dimensions:**

- Dimensions: 10"W x 15"D x 6"H
- Product Weight: 30 lbs
- Shipped Weight: 35 lbs

## **Warranty:**

ModWright agrees to warranty product for a period of 5 years from date of purchase from a factory authorized ModWright Instruments Dealer.

Warranty covers parts and labor for repairs due to equipment failure not related to customer abuse and/or neglect. The customer is responsible for shipping costs to and from ModWright Instruments or authorized service center.

There are no user-serviceable parts inside the amplifier and evidence that someone other than a ModWright Instruments Factory Authorized service professional has opened the product enclosure or in any way tampered with the internal workings of the unit, including replacement of stock fuses, will void factory warranty.

*Warranty is non-transferable to second party.*

## **Contact Information:**

If you have any questions about ModWright Instruments products or ModWright modifications or products, please do not hesitate to contact us via phone, e-mail or conventional mail.

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### **ADDRESS:**

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Thank you for purchasing a ModWright Instruments product.

Dan Wright,  
President, Owner  
ModWright Instruments, Inc.