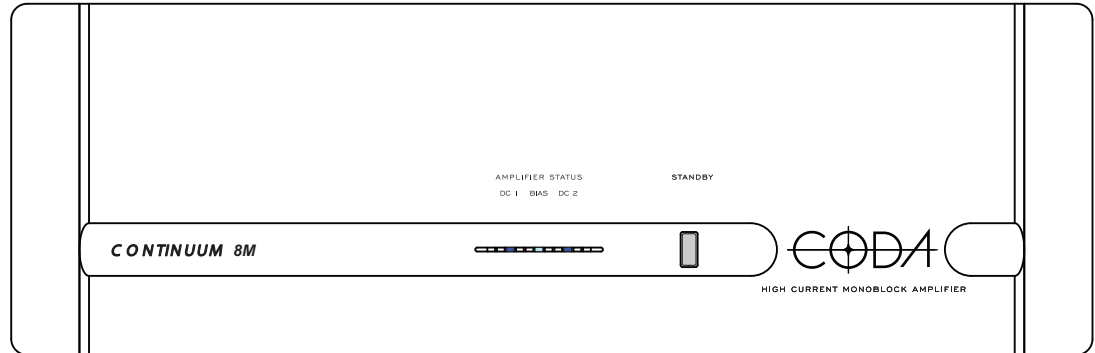






T E C H N O L O G I E S I N C .

# Monoblock Amplifier 8M OPERATION MANUAL



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<b>CAUTION</b>		
	<b>WARNING</b>	
<b>CAUTION:</b> TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL IS TO ALERT YOU OF THE PRESENCE OF UNINSULATED DANGEROUS VOLTAGE WITHIN THE UNIT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.	
	THIS SYMBOL IS INTENDED TO ALERT YOU OF THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.	

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. TO AVOID ELECTRICAL SHOCK, DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL.

- CAUTION**
- Never install or remove the power cord from the chassis unless it has been disconnected from the AC power source first.
  - Never pull on the power cord when removing it from an AC power source. Grasp it by the plug.
  - Do not leave the power cord connected to an AC power source unless it is connected to the unit.
  - It is recommend that during extended periods of non-use that the units power cord be unplugged from its AC power source.
  - Route the AC power cord so that it will not be damaged or walked on.

This amplifier is a precision device, designed in an effort to provide the listener with unmatched sound quality, design, and construction. In order to operate your amplifier properly and to realize all of the capabilities of the CONTINUUM 8M, we recommend that you read this entire manual carefully.

The Coda Continuum 8m amplifier is designed with the same level of thoroughness usually reserved for the finest amplifier gain stages. Balanced interconnections are provided to take advantage of their greater noise rejection they provide. Differential voltage gain throughout provides exceptional rejection of external noise and contributes to the inherent DC stability of the circuit. This allows direct coupling at the Balanced Inputs without servo circuitry. The unit also uses output followers operating without feedback.

The front end is designed to provide a slew rate of 50 V/us without entering Class B operation as is common in many other designs. This combined with excellent high frequency design insures linear operation at high speed. The supplies take a very direct approach to high performance. A top quality 2000VA toroidal transformer with independent rectifiers and about 80,000 uf of total capacitance with very low ESR and inductance are used.

The current stage is capable of producing currents in excess of 100 peak Amperes with a degree of linearity and speed which is not matched by other designs when producing only a fraction of this current. This is achieved by the implementation of several distinct circuit features.

Each channel uses 20 individual output transistors with a combined power capability of 3600 Watts and 75 Amps with a bandwidth of 10 Mhz.

The bias section is designed to produce a precision transition with no abrupt changes in distortion or output impedance. This "Precision Bias" technique yields seamless performance regardless of the complexity of the load impedance. With such linearity and bandwidth, no overall feedback correction is used. One advantage of this is a high degree of immunity from interactions with complex speaker loads or cables.

### **I. Rear Panel**

Note the correct left or right channel orientation. The function and channel markings on the rear panel correspond to the front panel controls and their signal paths.

1. The unbalanced or balanced inputs should be attached to the appropriate unbalanced OR balanced outputs of a preamplifier, either directly or through a crossover or processor as appropriate to the application. Only one input, balanced or unbalanced, should be used at a time.

2. The negative and positive outputs should be attached to corresponding speaker terminals.

NOTE: There are no output fuses so as to ensure a low output impedance. Speaker protection is left to the speaker manufacturer as they would best know how to protect their speaker.

3. The main power switch, once all appropriate connections are made, may be left on as the amplifier draws a negligible amount of current when the bias is disabled.

4. The fuse and voltage selector houses a 5x20 slow-blow fuse and voltage selector cartridge. Should the fuse blow, contact a Coda dealer or call Coda directly. When changing the fuse or altering the voltage selection be sure the unit is disconnected from its AC power source.

5. The AC line input should be attached to AC power with the cable included with the amplifier.

### **II. Front Panel**

1. The bias button enables and disables the amplifier bias voltage. When the bias is disabled the amplifier is muted and will draw no power, but the power supply will remain energized and ready to operate.

2. The LED in the center of the front panel indicates the bias state.

3. The two LEDs either side of the center LED indicate the amplifiers DC power supplies are working correctly. If either light should go out, disconnect the amplifier and contact your Coda dealer or Coda directly.

The interior of the unit requires no special care. If it becomes necessary to clean the exterior, a simple dusting may be all that is required. If a cleaner is necessary, any dilute commercial ammonia based product will be appropriate. NEVER use any abrasive rags, cleaners or chemical solvents on Coda products.

When handling the unit, take care not to mar the aluminum. Aluminum is a medium hardness metal and can be scratched by the harder tool steels.

Avoid exposing the unit to direct sunlight, and keep it away from sources of intense heat.

Do not throw away the carton or associated packing material. They are ideal if you need to pack the unit for moving and in the unlikely event that servicing is needed, they will be necessary for safe shipment.

Be sure to provide adequate insurance when shipping.

**RATED POWER**

V2:

800 Watts into 8 Ohms  
1600 Watts into 4 Ohms  
Class A ~5 Watts

V1:

500 Watts into 8 Ohms  
1000 Watts into 4 Ohms  
Class A ~10 Watts

**BANDWIDTH**

DC or -3dB at 5Hz through 100kHz depending on input

**DISTORTION**

Less than .03% from 10Hz to 20kHz at 500 Watts (V1) into 4 through 8 Ohms

**GAIN**

26dB

**CURRENT CAPABILITY**

150 Amperes peak

**SLEW RATE**

50 Volts/microsecond

**INPUT IMPEDANCE**

50k Ohms unbalanced/10k Ohms balanced

**OUTPUT IMPEDANCE**

.04 Ohms from 20Hz to 20kHz

**NOISE**

More than -110dB referenced to rated output

**POWER SUPPLY**

3.0kVA toroidal transformer with independent rectifiers and 80,000 uF of capacitance

**DIMENSIONS**

Faceplate: 17 inches wide by 5.5 inches tall  
Chassis: 16.75 inches wide by 6 inches tall by 14 inches deep

**WEIGHT**

62 lbs

I. Warranty - Any failure of the Coda product, hereafter known as the product or original product, to operate or to meet specifications, applicable at time of manufacture, due to a manufacturing defect or component failure, will be corrected by Coda Technologies without charge for parts or labor, for a period of ten years from date of original purchase. Coda Technologies will provide for surface transportation to and from the factory for a period of one year from date of original purchase.

II. Procedure - If the product should require service under warranty contact Coda Technologies at the location on the back cover of this manual for shipping instructions. Products purchased outside of the United States will be covered by the warranty conditions extended by the importing distributor which may differ from those given above.

III. Exclusion of Coverage - Coda Technologies is not obligated to service the product in certain conditions, as according to the following subsections.

- a. The product has been damaged through:
  - i. operation not in accordance with the instructions in this manual
  - ii. abuse, tampering, modification or accident
  - iii. serial number defacement
- b. The product has been transferred to a third party. This warranty is valid only for the original purchaser of the product.
- c. The product has been transported outside of the United States of America. In these conditions any service will be made at Coda Technologies sole option.

IV. Total Loss and Replacement - If the product is submitted for service due to a severe malfunction which has caused damage sufficient enough to make a repair attempt infeasible, the product will be replaced with another unit of equal or superior specifications. Coda Technologies product line is frequently updated and changed, and the specific model and version of the original product may be discontinued at any time without notice. In this case no guarantees are made that the replacement unit will be visually similar to the original product.

V. Subjective Differences - No guarantee is made that the product will perform to any specifications that cannot be measured and confirmed with precision audio analysis equipment. Coda Technologies is only obligated to make repairs which will bring the product into compliance with the specifications stated in this manual.

VI. Unnecessary Service - In all conditions, if the product is submitted for service and found to be operated without fault and within specifications, shipping charges will be billed to the customer.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Disclaimer - Coda Technologies cannot be held responsible for any damage caused by their products, including but not limited to:

- a. Damage to speakers caused by failure of a Coda Technologies product to mute or disable itself as expected or described in its manual.
- b. Damage caused by connecting a load to a Coda Technologies product having an improper impedance as described in the products manual.
- c. Damage caused by defects in design, construction or component quality.



Fill in this registration sheet and fax or mail it to Coda Technologies to ensure you are in our warranty system. This will facilitate warranty service should it become necessary.

It is recommended that you retain a copy of this form for your own records. Coda Technologies' address and fax number are located on the back of this manual.

MODEL DESIGNATION: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

PLACE OF PURCHASE

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

OWNER INFORMATION

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

NOTES: \_\_\_\_\_  
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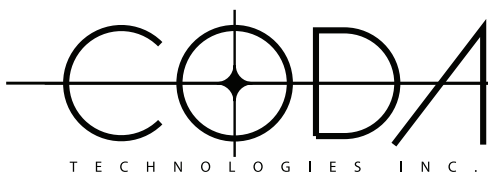
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NOTES:

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