

# **CAD-211M**

## **OPERATING MANUAL**

**Note:**

Before installing you new CAD-211M, please read this manual carefully. This manual will inform you of the CAD-211M specifications, proper installation procedures and operation procedures. Also included in this manual are guidelines on how to properly service and care for your new CAD-211M.

## SPECIFICATIONS

Operating the CAD-211M amplifiers is a simple procedure since each unit is designed for long term stability in virtually any home operating situation. Therefore, if the unit is operated outside the parameters outlined in this owner's manual, damage may result. Please read this manual carefully before putting your new Cary Audio Design CAD-211M mono block amplifier into operation.

The following definitions are applicable to this manual. These definitions must be followed explicitly.

**WARNING: ELECTRICAL HAZARD! MISUSE OR FAILURE TO FOLLOW INSTRUCTIONS PROPERLY MAY RESULT IN PERSONAL INJURY OR DEATH!**

**CAUTION: No risk of personal injury; however, misuse or failure to follow instructions may result in damage of equipment.**

**NOTE: No risk of personal injury or equipment damage; however, misuse or failure to follow instructions may prevent proper performance of the equipment.**

### **1.2 Specifications**

The following section describes the CAD-211M basic specifications. Specifications are subject to change without notice or obligation.

<b>POWER OUTPUT:</b>	<b>80W</b>
<b>FEEDBACK:</b>	<b>Zero</b>
<b>FREQUENCY RESPONSE:</b>	<b>20Hz - 20KHz ±</b>
<b>NOISE:</b>	<b>80dB Below Rated Output</b>
<b>SENSITIVITY:</b>	<b>2V</b>
<b>TUBE COMPLIMENT:</b>	<b>2 - 845 Output</b>

**2 - 300B Driver**  
**2 - 6SN7 Input**

**OUTPUT IMPEDANCE:** 4,8 and 16 ohm

**INPUT POWER**

**REQUIREMENTS:** 117V/220V 50 - 60 Hz

**POWER CONSUMPTION:** 265 watts "OPERATE"  
220 watts "STAND BY"

**DIMENSIONS:** 10"H x 12 1/4"W x 24"D

**NET WEIGHT:** 90 lbs

**SHIPPING WEIGHT:** 125 lbs

**POWER**

**TRANSFORMER:** 300 percent duty cycle wax impregnated OFC copper

**OUTPUT**

**TRANSFORMER:** 200 percent duty cycle wax impregnated OFC copper

**CAPACITORS:** oil filled

**POWER SUPPLY**

**CAPACITORS:** 1500MF, 450V

**AC CORD:** detachable

**WARM-UP TIME:** 5 minutes

**BREAK-IN PERIOD:** 100 hours of music playing time

### 1.3 Top Panel Features

**AC-ON SWITCH:** Turns AC power on

**STAND-BY SWITCH:** Turns high voltage on

### 1.4 Rear Apron Features

**OUTPUT:** Three 5-way copper binding posts provide outputs for 4 ohm, 8 ohm and 16 ohm

**AC:** 3 conductor shielded power cord to AC power mains

**INPUTS:** One Single-Ended Input via gold plated RCA jack  
One Balanced Input via XLR connector (Note: When using Balanced Input, the toggle switch, located next to the XLR input jack, must be flipped toward the XLR jack)

**CAUTION**  
Use of any other protection  
fuse can damage unit.

**FUSE:** AC power fuse. Never replace with any other fuse than 5 amp.  
SLOW BLOW! 250 VOLT!

Tube fuse. Never replace with any other fuse than 1/2 amp.  
FAST BLOW! 250 VOLT!

**CAUTION**  
Never remove/insert  
AC line cord when the  
unit is "ON"

## INSTALLATION

This section describes the unpacking and installation procedures for the CAD-211M mono-blocks.

### **WARNING**

**Do not attempt operation without the bottom plate attached. Contact with voltage in the CAD-211M can be fatal!!!**

### **2.2**

#### **Unpacking**

All shipping containers have been specifically designed to protect its contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection. If damage is found, take care not to destroy the evidence. Document any damage with photographs and contact the transport carrier immediately.

Carefully remove the CAD-211M amplifier from its packing carton and examine closely for signs of shipping damage. Save all original packing cartons for future storage or after-sale service.

### **2.3**

#### **Warranty Card**

Fill out the enclosed Warranty Registration Card and return to Cary Audio Design within 10 days of the original purchase. Keep your original sales slip and packing cartons for future reference. **Failure to register warranty will limit the warranty to one year.**

### **2.4**

#### **Amplifier Placement**

In general, the location of the CAD-211M amplifier is not critical. The best placement of the amplifier is near the speakers with short lengths of speaker cables. Certain precautions must be taken to avoid radiators or other heating units. Keep the top of the CAD-211M clear of books, paper or other equipment to protect against overheating.

## **2.5 Power Requirements**

The CAD-211M is designed to operate from house current mains. The design voltage is 117 VAC at 50/60Hz. (Foreign units 220 VAC at 50/60 Hz)

## **2.6 Cables**

The speaker cables from the output posts to the speaker system can be any convenient length required. Select speaker cables of sufficient size to preserve the performance capabilities of your new CAD-211M. Heavy gauge #16 wire is suitable for distances up to 10 feet; #12 for 25 feet. Most audio dealers will have speaker cable in stock for this purpose.

## **3.1 Operation**

Your new CAD-211M is ready for operation after the speaker, interconnect cables and all the tubes have been installed. See page 8 for tube positions.

## **3.2 AC-On Power Switch**

Simply push the AC-On switch to the "ON" position. Observe that all tubes are lit (filaments). After 30 seconds, flip the stand-by switch to the "OPERATE" position. The eye tube will then light.

## **3.3 Stand-By Switch**

This is a most convenient feature on the CAD-211M amplifier. The stand-by switch is located on the top of the amplifier. In the rear position, the amplifier is ready to operate. In the front position, only the tube filaments are operating. You may wish to leave your CAD-211M amps turned on in the stand-by mode 24 hours a day. When you wish to

listen to music, simply flip the stand-by switch to the “REAR” position. Under these conditions the CAD-211M is always ready for peak performance.

### **3.4 Break In Period**

The tubes, capacitors and output transformer take approximately 100 hours of music playing time to operate at peak performance. The CAD-211M may seem sterile or thin sounding right out of the box. After the first couple of hours, you will notice increased depth and tighter bass. This break-in period defies all engineering theory, but is true with most audio amplifiers.

<p><b>WARNING</b> <b>Make sure amplifier is unplugged from AC mains for any service or cleaning!</b></p>
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### SERVICE AND CARE

#### **4.1 Care and Cleaning**

The chassis of the CAD-211M may be cleaned with a soft towel and Windex® (or a similar window cleaner). The frequency of cleaning will be governed by how many hours the CAD-211M is operated and by operating environmental cleanliness.

#### **4.2 Tube Replacement**

If it becomes necessary to replace the tubes in the CAD-211M amplifier, a matched set of tubes of the same brand should be used. Although tube life varies depending on the nature and degree of use, under normal operating conditions for home use, the tubes in the CAD-211M should last several years or more.

#### **4.3 Factory Service**

In the design of the CAD-211M, careful consideration was given to keep maintenance problems to a minimum. However, it is possible that problems may arise which cannot be cured by tube substitution. At this point, contact our Customer Service Department, (919) 481-4494, to describe you problem in detail. Do not return the CAD-211M to the

factory without a Return Authorization Number from the Customer Service Department. Cary Audio Design will not assume responsibility for transit damage or loss if problems are due to improper packing or lack of insurance.

### **WARNINGS**

Make no attempt to put the CAD-211M in service outside of the cabinet. Contact with high voltages found in the unit can be fatal!!!

Completely remove AC Power Cord from the wall and allow 30 minutes for the high voltage capacitors to discharge through bleeder resistors before attempting to change tubes or clean the inside of the amplifier.

### **CAUTIONS**

Never remove/insert AC Plug when the unit is on or the AC Power Switch is in the "ON" position.

Obstruction of the top portion of the CAD-211M will result in tubes overheating.

**OBSERVE DIRECTIONS IN THIS MANUAL**



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