



CAD-211M

Mono Block Amplifier

OPERATING MANUAL

Note:

Before installing your 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.

POWER OUTPUT:	80W
FEEDBACK:	Zero
FREQUENCY RESPONSE:	20Hz - 20KHz ±
NOISE:	80dB Below Rated Output
SENSITIVITY:	2V
TUBE COMPLIMENT:	2 - 845 Output 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>WARNING Make sure amplifier is unplugged from AC mains for any service or cleaning!</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.

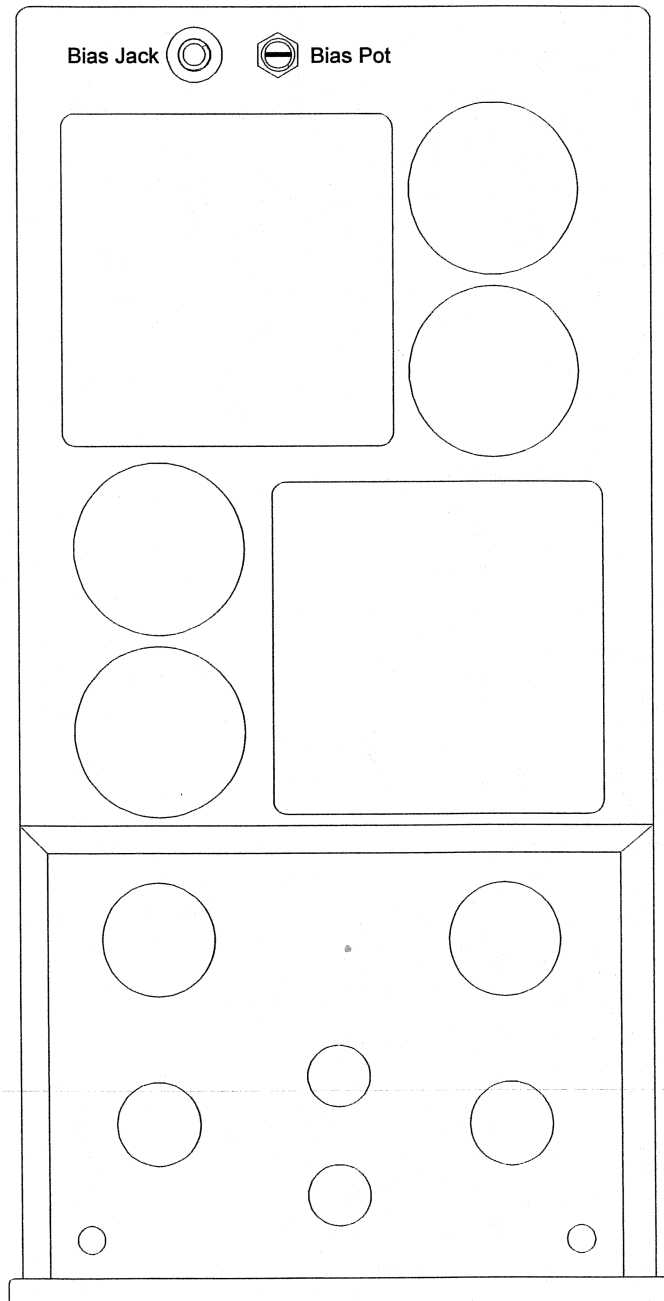
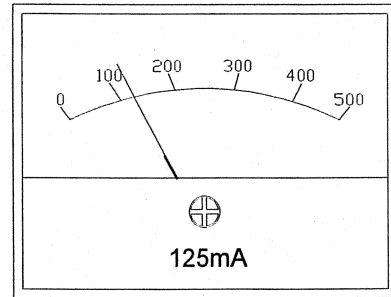
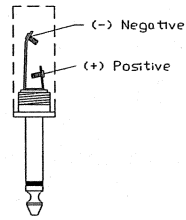
CAUTIONS

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

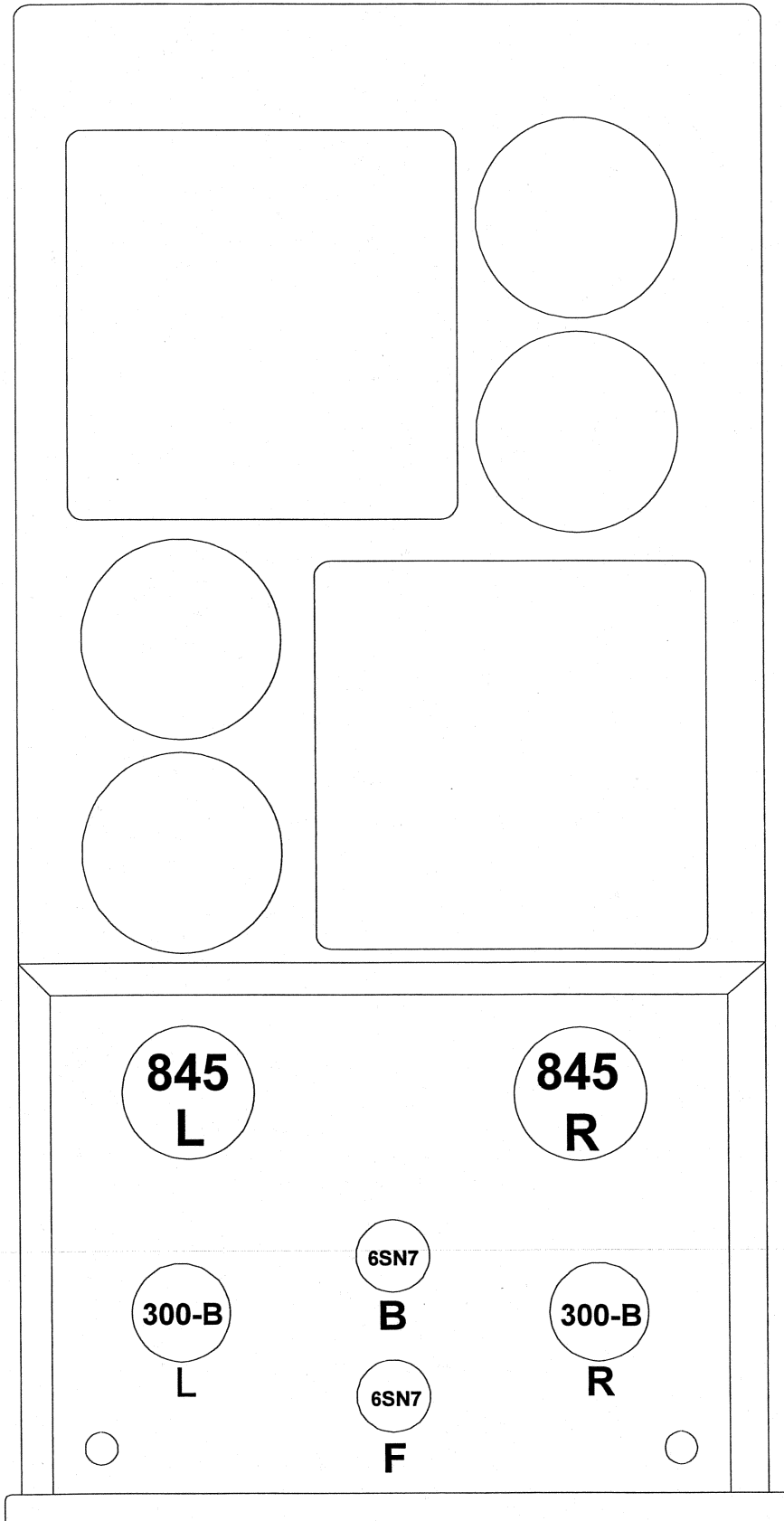
CAD - 211m Bias Adjustment



Insert meter plug into bias jack.
Adjust for 125mA reading on VOM or DC current meter.
Readjust to 125mA after after 211 is warmed up for
10 minutes. Remove plug and enjoy the music!

Note: Bias is factory preset; Bias should be reset when installing replacement 845 tubes.

CAD - 211m Tube Placement



NOTES:

UNITED STATES LIMITED WARRANTY

Cary Audio Design, Inc. warrants to the original United States purchaser for use in the United States, that this product shall be free from defects in material (except tubes and AF output transistors) or workmanship for:

Amplifiers and Preamplifiers, Three (3) years from the date of the original purchase.
Digital Products, One (1) year from the date of original purchase

During the warranty period, Cary Audio Design, Inc. or an authorized Cary Audio Design, Inc. service facility will provide free of charge both parts (except tubes and AF output transistors) and labor necessary to correct defects in material or workmanship.

To obtain such warranty service, the original purchaser must:

- (1) Complete and send in the warranty Registration Card.
- (2) Notify Cary Audio Design, Inc. as soon as possible after the discovery of a possible defect:
 - (a) The model number and serial number;
 - (b) The identity of the seller and the approximate date of purchase;
 - (c) A detailed description of the problem, including details on the electrical connection in the associated equipment and the list of such equipment.
- (3) Deliver the product to Cary Audio Design, Inc. or the nearest authorized service facility, or ship the same in its original container or equivalent, fully insured and the shipping charges prepaid.

Correct maintenance, repair and use are important to obtain optimum performance from this product. Therefore, carefully read the Operating Manual. This warranty does not apply to any defect that Cary Audio Design, Inc. in its sole discretion determines is due to:

- (1) Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and the specifications of the original parts.
- (2) Misuse, abuse, neglect or improper installation.
- (3) Accidental or incidental damage.

WARRANTY DISCLAIMER

Except for the express warranties stated herein, Cary Audio Design, Inc. disclaims all other warranties including, without limitation, all implied warranties of merchantability and fitness for a particular purpose.

EXCLUSIVE REMEDY

Notwithstanding the foregoing, the purchaser's exclusive remedy for any breach of warranty, express or implied, is limited to the repair or replacement of the defective unit or the refund of the purchase price, at the option of Cary Audio Design, Inc. Under no circumstances is Cary Audio Design, Inc. liable for incidental or consequential damages. Any implied warranties imposed by law terminate one (1) year from the date of purchase.

FOREIGN PURCHASERS

Cary Audio Design, Inc. warrants its merchandise to purchasers in the United States for use in the United States. It provides no other warranties. If you are a foreign purchaser, consult with your dealer to determine whether your dealer provides any warranty.

The foregoing constitutes Cary Audio Design Inc.'s entire obligation with respect to this product, and the original purchaser and any user or owner shall have no other claim for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you.

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

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