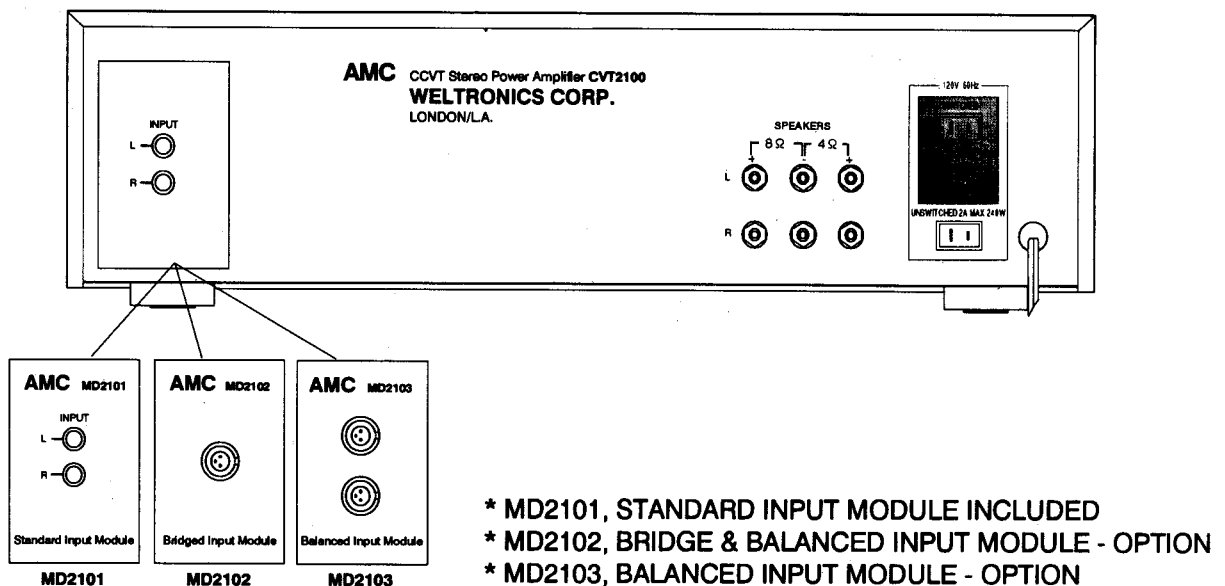
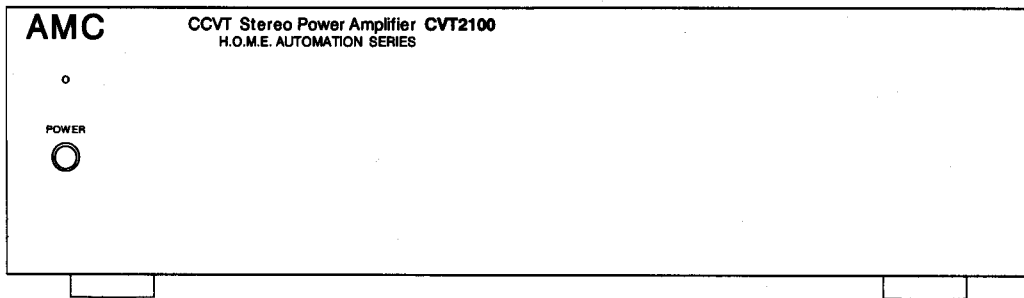


# AMC CVT2100

## VALVE POWER AMPLIFIER



**INSTRUCTIONS FOR INSTALLATION AND OPERATION**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



AFIN D'EVITER UN CHOC ELECTRIQUE ET LES CONSEQUENCES GRAVES QUI POURRAIENT EN RESULTER, TENTEZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE.



PARA REDUCIR EL RIESGO DE SACUDIDAS ELECTRICAS, NO DEBERA QUITARSE LA TAPA (NI PARTE POSTERIOR). CONSULTESE AL PERSONAL CAPACITADO PARA LAS REPARACIONES INTERNAS.

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**ADVERTENCIA:** PARA EVITAR EL RIESGO DE INCENDIO O SACUDIDA ELECTRICA, NO DEBERA EXPONERSE ESTE APARATO A LA LLUVIA O HUMEDAD.

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARISED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SILES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

**PRECAUCION:** PARA EVITAR SACUDIDAS ELECTRICAS, NO DEBERA UTILIZARSE ESTA CLAVIJA POLARIZADA CON UN CORDON DE PROLONGACION, RECEPTACULO U OTRO TIPO DE SALIDA A MENOS QUE SE HAYAN INSERTASO COMPLETAMENTE LAS LENGÜETAS PARA EVITAR SU EXPOSICION.

**NOTE:** Some AMC products are equipped with dual or multi-voltage transformers (which is indicated on the back panel). If you wish to change the voltage, please bring your unit to an authorised AMC service technician for internal conversion.

**ATTENTION:** Quelques pièces AMC sont munies de transformateurs à double ou à multi-voltage (indiqué au panneau arrière). Si vous voulez changer le voltage, veuillez apporter votre appareil au fournisseur de AMC pour le transformer.

**ZUR BEACHTUNG:** Einige AMC Geräte sind mit Umschaltern für unterschiedliche Netzspannungen ausgerüstet (Ein Vermerk auf der Rückseite weist darauf hin). Die Anpassung, wenn notwendig, muß von einem qualifizierten Techniker in einer AMC Servicestation vorgenommen werden.

**NOTA:** Ciertos componentes de AMC están dotados de transformadores de doble tensión o de varias tensiones (lo que se indica en el panel posterior). Si se desea cambiar la tensión, sírvanse llevar el aparato a un técnico autorizado por AMC para su conversión interna.

**NOTE to CATV systems installer:** This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**NOTA PARA EL INSTALADOR DE ANTENAS DE TELEVISION COLECTIVAS:** La presente advertencia se provee para llamar la atención del instalador al Artículo 820-22 de NEC (Código Eléctrico Nacional) donde se facilitan las directrices para la pertinente puesta a tierra y que especifica en particular que el conductor a tierra del cable debe conectarse al sistema de conexión a tierra del edificio, lo más proximo posible al punto de entrada del cable.



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## INTRODUCTION

The AMC CVT2100 has been designed to give superb sound quality and represents outstanding value for money.

The CVT2100 is a hybrid mosfet valve design, capable of giving superb sound reproduction. The components are all of the highest quality, but there are a few simple hints to follow in order to get the best from your new amplifier.

- 1) Do not stand any object or other component on the top. Whilst the 2100 is one of the coolest running Class A valve amps available, uninterrupted air flow is most important.
- 2) There are two silent fans in the base under each pair of KT88 valves. Again, the air space under the amp must not be restricted in any way. Never stand the unit on a carpeted surface or anything soft, or on another component which generates heat.
- 3) The amplifier will sound best when it is "warmed up", this can take 15-20 minutes.
- 4) The valves should last a very long time but can be changed easily. However, as there is always some voltage present inside, even when the unit is turned off, we recommend that this is carried out by your AMC dealer, it is only a five minute job for an engineer.
- 5) We recommend you retain the original carton and packaging so that it can be repacked correctly if it ever becomes necessary to transport the unit or return for service.
- 6) After switching off, always let the amplifier cool down before turning on again.

## INSTALLATION

Your AMC amplifier is supplied set to work on your local mains supply voltage. Check that your local mains supply voltage agrees with the voltage setting indicated on the back panel of the amplifier. If not, please contact your dealer or national distributor for details on how to proceed further.

The cores of the mains lead are coloured in accordance with the following code:

Blue -Neutral

Brown -Live

**Note:** Export units for certain markets have moulded mains plugs fitted as standard.

As the colours in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked by the letter N, or coloured black or blue. The wire which is coloured brown must be connected to the terminal which is marked by the letter L, or coloured red or brown.

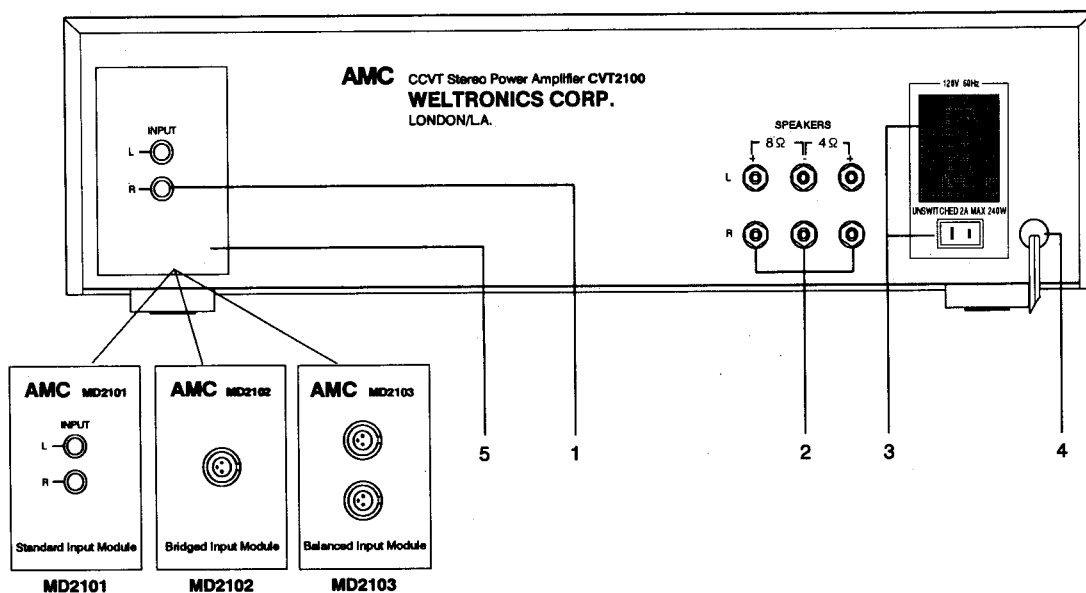
## FUSES

If the mains plug is fused, fit a 3amp fuse.

Your AMC amplifier contains fuses which are designed to protect the amplifier and prevent the occurrence of a dangerous fault condition. These should only be inspected and replaced by a competent engineer using the correct replacement types.

# REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

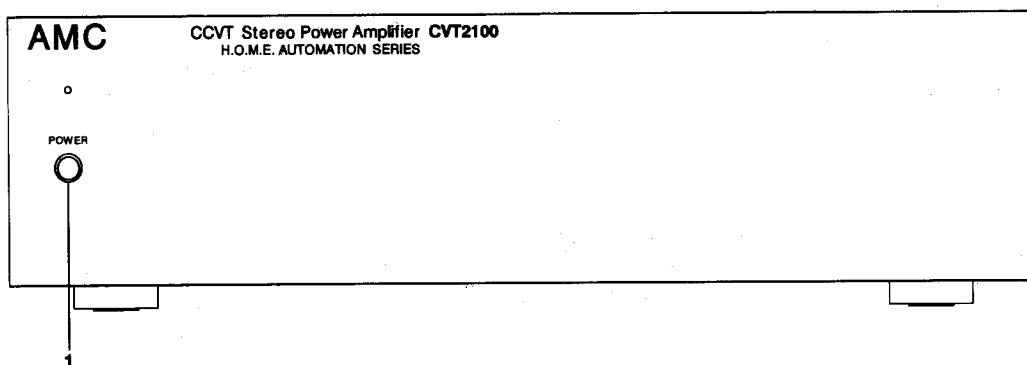
## REAR PANEL



1. INPUT MODULE
2. LOUDSPEAKER TERMINALS
3. AC CONVENIENCE OUTLETS
4. AC LINE CORD

5. MD21XX Modules;  
 MD2101, Standard Input Module Included  
 MD2102, Bridge & Balanced Input Module - Option  
 MD2103, Balanced Input Module - Option

## FRONT PANEL



1. POWER SWITCH

## REAR PANEL CONNECTIONS

### 1. INPUT MODULE

CVT2100 Includes with MD2101, Standard Input Module.

The inputs are via gold plated RCA type phono connectors. The phono sockets on your AMC amplifier are marked "L" for left and "R" for right channels, with the left channel nearest the top of the cabinet. Your connection leads will have a white or black plug for left, and a red plug for right.

MD2102, Bridge & Balanced Input Module and MD2103, Balanced Input Module are Options.

### 2. LOUDSPEAKER TERMINALS

The loudspeaker output terminals will accept 4mm (banana) plugs, pin connectors, spade connectors or bare wires.

The amplifier has speaker outputs that will match 4-8 Ohm speakers. Confirm the impedance of your speakers then connect as follows: For 8 Ohm Speakers, connect the negative (black) speaker wire to the "common" negative binding post.

Then connect the positive (red) cable to the 8 Ohm red binding post.

Repeat for the right speaker.

For 4 Ohm speakers, the negative (black) connections are the same as the 8 Ohm, but the positive or red connection must be to the 4 Ohm binding post. Your AMC amplifier is capable of generating high peak currents, so all connections must be checked to avoid inadvertent short circuits, and to ensure a good clean contact.

**UNDER NO CIRCUMSTANCES SHOULD THE OUTPUTS BE SHORTED TOGETHER.**

### 3. A/C CONVENIENCE OUTLETS

The A/C convenience outlets are fitted so that other components can be powered when your amplifier is switched on.

**UNDER NO CIRCUMSTANCES SHOULD THE CASE OF THE AMPLIFIER BE OPENED BY ANYONE OTHER THAN A QUALIFIED ENGINEER, AS DANGEROUS VOLTAGES ARE PRESENT INSIDE. ANY UNAUTHORISED REPAIR MAY INVALIDATE YOUR WARRANTY.**

## FRONT PANEL CONTROLS

### 1. POWER SWITCH

The amplifier is turned on by depressing the power switch. The small indicator above the switch will glow green. Before switching on, always set the volume control of your Pre Amp to minimum to avoid damage to your loudspeakers.

**Note:** Your AMC amplifier will play music within a few minutes after being switched on. However in common with other audiophile products, the internal circuits take some time to stabilise fully, and the best possible sound quality may not be obtained until the amplifier has had some time (possibly an hour or two) to warm up.

### CHECK LIST

Should you have any difficulty in operating your amplifier, switch off and check the following before suspecting that a fault has developed:

#### **No power and LED not illuminated**

1. Check that all mains supplies, connections and fuses are good and that the power is switched on.

#### **Power on and LED illuminated but no output**

1. Check that the amplifier is connected to the desired input.
2. Check that the loudspeakers are connected correctly to the power amplifier.

#### **Power on and LED illuminated but output from one speaker only**

1. Check that the input wiring is not faulty. If in doubt, contact your dealer.

#### **Loud hum heard through loudspeakers when disc is selected**

1. Check that the amplifier is correctly earthed via the mains lead.
2. Check that other transformers in the vicinity are not radiating into your amplifier.

# SPECIFICATIONS

Power output into 8/4 ohms.....	80W
With both channels driven	
With balanced bridged input module.....	160W
Rated T.H.D. 45Hz-20KHz.....	1.0%
1KHz clipping power into 8/4 ohms.....	85W
Input sensitivity for 1W/80W into 8 ohms.....	138mV/1230mV
Input impedance.....	500K ohms/470pF
<b>Frequency response:</b>	
20Hz-20KHz.....	+/-0.5dB
-3dB.....	10Hz/80KHz
<b>Signal to noise ratio (ref. 1W/8 ohms):</b>	
"A" WTD. ....	95dB
UN-WTD. ....	85dB
Separation 20Hz-20KHz.....	> 65dB
Overall feedback.....	14dB
Dimensions (WxHxD).....	430x112x288mm
Net weight.....	19Kg
Shipping weight.....	20Kg

# SAFETY INSTRUCTION

## 1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the appliance is operated.

## 2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

## 3. HEED WARNINGS

All warnings on the appliance and in the operating instructions should be adhered to.

## 4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

## 5. WATER AND MOISTURE

The appliance should not be used near water— for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

## 6. CARTS AND STANDS

The appliance should be used only with a cart or stand that is recommended by the manufacturer.

### 6A.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



## 7. WALL OR CEILING MOUNTING

This equipment is not designed for use mounted on a wall or a ceiling.

## 8. VENTILATION

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings.

## 9. HEAT

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

## 10. POWER SOURCES

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

## 11. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

## 12. CLEANING

The appliance should be cleaned only as recommended by the manufacturer.

## 13. NON USE PERIODS

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

## 14. OBJECT AND LIQUID ENTRY

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

## 15. SERVICING

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

## 16. DAMAGE REQUIRING SERVICE

The appliance should be serviced by qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

## 17. POWER LINES

(APPLIES TO TUNER AND RECEIVERS ONLY)

An outdoor antenna should be located away from power lines.

## 18. OUTDOOR ANTENNA GROUNDING

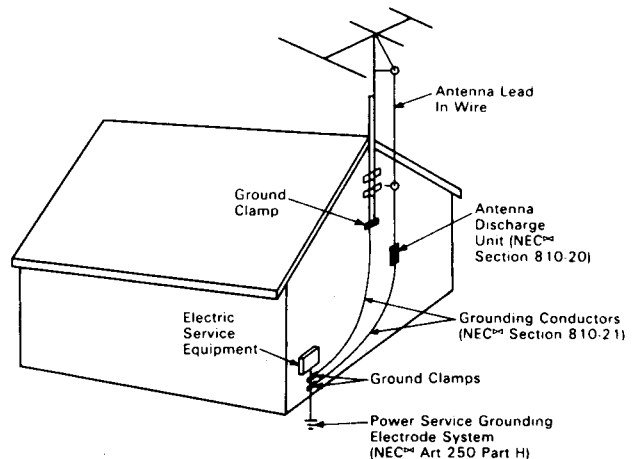
(APPLIES TO TUNER AND RECEIVERS ONLY)

If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.

- Use No. 10 AWG (5.3 mm<sup>2</sup>) copper, No. 8 AWG (8.4mm<sup>2</sup>) aluminum, No. 17 AWG (1.0mm<sup>2</sup>) copper-clad steel or bronze wire, or larger, as a ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4–6 feet (1.22–1.83 m) apart.
- Mount antenna discharge unit as close as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm<sup>2</sup>) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

Antenna Grounding According to the National Electrical Code



<sup>®</sup>National Electrical Code  
Available from Library, book stores, or National Fire Protection Association (Batterymarch Park, Quincy, MA 02269).

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