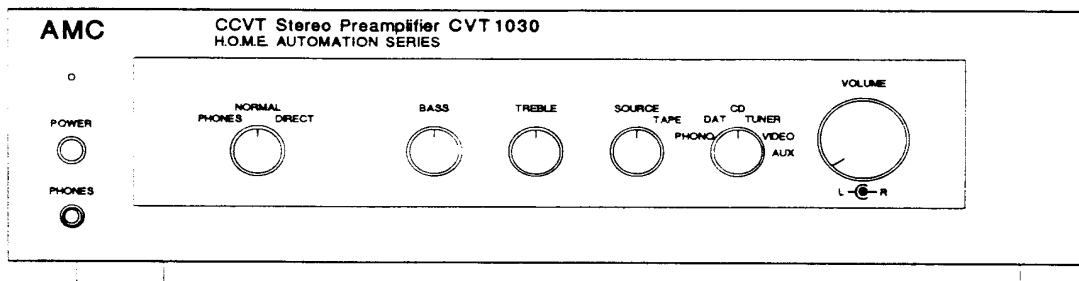


# AMC CVT 1030

## PRE 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, TENEZ 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 CHOCS 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 qualifizieren 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 CVT1030 has been designed to give superb sound quality and represents outstanding value for money.

- 1) The AMC CVT1030 high level inputs provide class. A valve amplification throughout and is capable of giving superb sound reproduction.
- 2) Dynamic range exceeds 123dB.
- 3) Signal to noise ratio > 96dBV.
- 4) High quality components used throughout including special audio quality capacitors.
- 5) Optional balance output module.
- 6) Two outputs provide easy connection for bi-amplified speakers and other applications.
- 7) Very low output impedance enables long inter-connects to be used without sonic degradations.
- 8) Highly accurate phono stage designed for superior sonic reproduction of phonograph recordings.
- 9) Modular construction that provides upgradable feature.
- 10) Whilst the AMC CVT1030 will not generate a lot of heat, air flow is still important. The air space under the unit must not be restricted in any way. Never stand the unit on a carpeted surface or any soft surface.
- 11) The pre - amplifier will sound best when it is "warmed up", this can take 15-20 minutes.
- 12) 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.
- 13) After switching off, always let the amplifier cool down before turning on again.

## INSTALLATION

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

Units for certain markets have moulded mains plugs fitted as standard. Some others are without. For units without mains plugs, the cores of the mains lead are coloured in accordance with following code:

Blue	--Neutral
Brown	--Live

If the colours in the mains lead do 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 coloured brown must be connected to the terminal marked by the letter L, or coloured red or brown.

## FUSES

If the mains plug is fused, use a 3 amp 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.

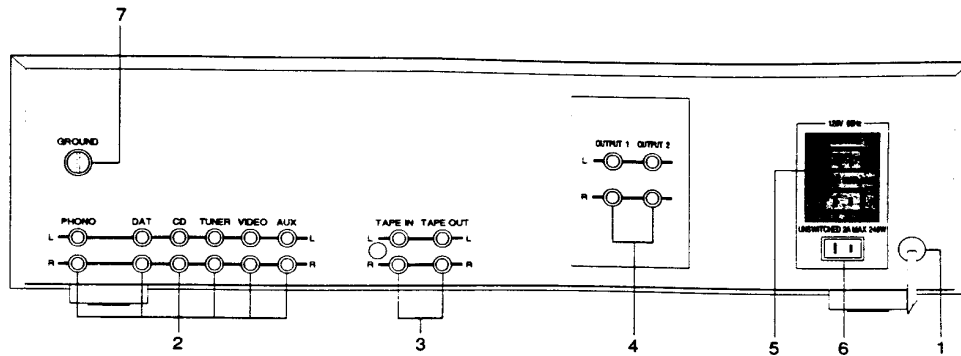
## APPLICATIONS AND FEATURE LIST

The AMC model CVT1030 stereo pre - amplifier, is designed for select audio sources, refine sound details and drive power amplifiers properly.

- \* Seven gold plated stereo audio inputs.
- \* Two gold plated stereo audio outputs.
- \* "Direct switch" completely disconnects the tone controls from the signal path.
- \* Use special designed Vacuum Tube amplifier circuitries to offer very high overload margin (higher than 50Vrms) in order to handle all types of music with very high dynamic range like digital music.
- \* Vacuum Tube type of Bass & Treble control.
- \* Modulized output stage offering standard outputs or balanced output modules(option).
- \* Vacuum Tube circuitry with THD less than 0.03%.
- \* Vacuum Tube circuitry with S/N better than 96dB.

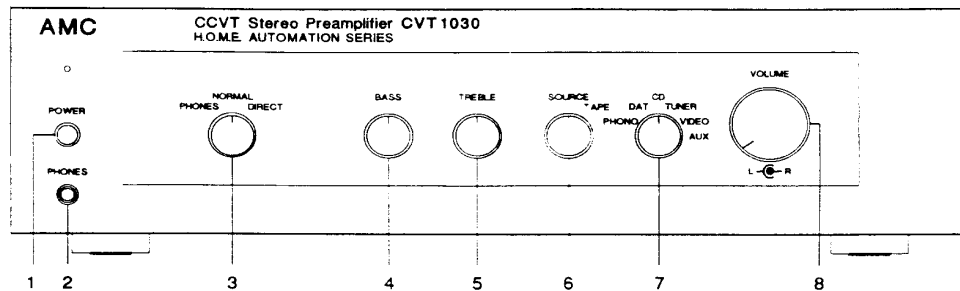
# REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

## REAR PANEL



- |  |                                     |
|--|-------------------------------------|
| 1. AC LINE CORD                                    | 4. AUDIO OUTPUTS                    |
| 2. AUDIO INPUTS: PHONO, DAT, CD, TUNER, VIDEO, AUX | 5. SWITCHED CONVENIENCE AC OUTLETS  |
| 3. TAPE IN/OUT                                     | 6. UNSWITCHED CONVENIENCE AC OUTLET |
|  | 7. PHONO GROUND TERMINAL            |

## FRONT PANEL



- |                                |                          |
|--------------------------------|--------------------------|
| 1. POWER SWITCH                | 5. TREBLE CONTROL        |
| 2. PHONES SOCKET               | 6. TAPE MONITOR SWITCH   |
| 3. PHONES/NORMAL/DIRECT SWITCH | 7. INPUT SELECTOR SWITCH |
| 4. BASS CONTROL                | 8. VOLUME CONTROL        |

## REAR PANEL CONNECTIONS

### 1. AC LINE CORD

Plug the AC line cord into a nearby wall outlet that provides the correct AC power line voltage, or into an un-switched convenience outlet on any AMC product.

### 2. AUDIO INPUTS: PHONO, DAT, CD, TUNER, VIDEO, AUX

These gold plated RCA type input connectors are for connection to audio signal sources via RCA jacks.

### 3. TAPE IN/OUT

These gold plated RCA type connectors are for connection to a recording machine.

### 4. AUDIO OUTPUTS

These two pairs of gold plated RCA type connectors are for connection to a stereo power amplifier.

### 5. SWITCHED CONVENIENCE AC OUTLETS

There are 2 switched convenience AC outlets for 120V versions and only one for 220V/230V/240V versions. These convenience AC outlets are controlled by the power ON/OFF button on the front panel.

### 6. UNSWITCHED CONVENIENCE AC OUTLET

There is one un-switched convenience AC outlet for 120V versions and none for 220V/230V/240V versions.

### 7. PHONO GROUND TERMINAL

Turntables are generally provided with a ground wire. This wire should be connected to the phono ground terminal in order to minimize hum.

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

Press to turn on CVT1030. Press again to turn off CVT1030. When the CVT1030 is turned on, a small indicator above the switch will glow green. Before switching on, always set the volume control to minimum to avoid damage to your loudspeakers.

**Note:** Your AMC amplifier will play music almost immediately 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 15-20 minutes) to warm up.

### 2. PHONES

The headphone socket will accept any headphones fitted with a standard quarter inch (6.35mm) stereo jack plug. For private listening via headphones, the Direct / Phones switch should be set to "Phones", thus cutting the output to your loudspeakers.

In this position the tone controls remain active.

The mute feature is also useful for situations where the output from your loudspeakers needs to be cut momentarily (eg for a phone call etc).

### 3. PHONES/NORMAL/DIRECT SWITCH

For private listening on headphones, the Phones / Normal / Direct switch should be set to Phones position. In this position, the tone controls remain active and the loudspeakers are muted. When the switch is set to "Normal" the tone controls are connected into the signal path. In the "Direct" position the tone controls are completely disconnected from the signal path and are therefore inoperative.

### 4. & 5. TONE CONTROL, BASS & TREBLE

The tone controls on your AMC pre - amplifier use low colouration circuitry to ensure the minimum degradation of the music signal. They are designed to gradually modify the tonal emphasis of the music and to compensate for such problems as difficult room acoustics.

With the Direct / Phones switch in the "Normal" position, the tone controls will cut their respective frequencies when turned anti-clockwise and boost them when turned clockwise. The flattest response is found when the controls are in the "12 o'clock" position. (DETENTED POSITION)

## **6. TAPE MONITOR SWITCH**

The Tape Monitor switch is generally left in the "source" position so that the programme selected by the input switch is routed to the loudspeakers/headphones. If the Tape Monitor switch is turned to the "Tape" position, the signal from the tape recorder is routed to the loudspeakers/headphones. If your tape machine is a three head type suitable for A / B monitoring, then turning the Tape Monitor switch to the "Tape" position will allow full off - tape monitoring of the recorded signal to be carried out via the loudspeakers/headphones.

All sources, Disc, CD, Tuner and Aux can be recorded via the tape connections. To record an input, select the required source and set your recorder to the record mode.

To record from one tape recorder to another, the playback recorder should be plugged into the Aux socket, and the recording machine into the Tape socket. The input selector switch should be set to "Aux". A recording can now be made in the normal way.

Set the Tape Monitor switch to the "Tape" position and your recorder to the playback mode.

## **7. INPUT SELECTOR SWITCH**

The rotary input selector switch is used to select the desired input (Phono, DAT, CD, Tuner or Aux). The selected signal is also applied to the "Tape out" sockets for recording.

## **8. VOLUME CONTROL**

The Volume Control is of a split type and allows you to adjust the level of the left and right channels for both loudspeakers independently.

Normally, the two halves of the control knob rotate together as they are locked together by a friction clutch inside to volume control itself.

However, by holding the rear part of the control firmly with the first finger and thumb of one hand, it is possible to alter the relative position of the two parts of the knob, and thus compensate for level differences caused by the nature of the input signal or due to room acoustics.

# SPECIFICATIONS

## Input sensitivity for 1 volt output

High level inputs..... 150mV  
Phono input..... 2.3mV

Rated THD..... 0.03%

## Input impedance

High level inputs..... 20K ohms/100pf  
Phono input..... 47K ohms/100pf  
Output Impedance..... <200 ohm

## Frequency response

Direct mode 20Hz-20KHz..... +/-0.5dB  
Normal 20Hz-20KHz..... +/-1.0dB  
High level inputs-3dB..... 4Hz/80KHz

## Signal to noise ratio (ref. 1volt)

High level inputs "A" WTD..... 96dB  
Phono input "A" WTD..... 79dB

## Tone control range

Bass at 50Hz..... +/-8dB  
Treble at 10KHz..... +/-7dB

Dimensions (W x H x D)..... 430 x 112 x 288 mm

Net Weight..... 6.5Kg

Shipping weight..... 7.5Kg



# 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

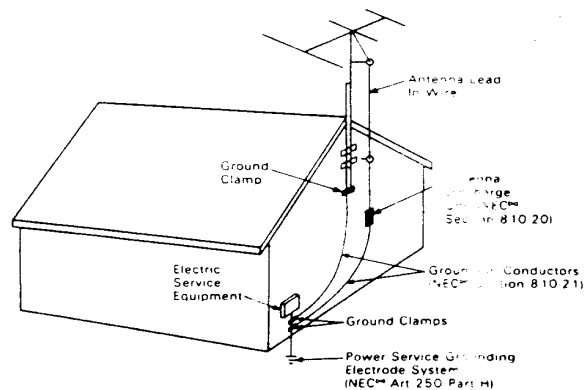
### (APPLIES TO TUNER AND RECEIVERS ONLY)

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



©National Electrical Code  
Available from library, book  
stores, or National Fire Protection  
Association (Batterymarch Park  
Quincy, MA 02269)



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