

# AMC 2100MKII

## STEREO 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 SI LES 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 INSERTADO 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 próximo 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.

## INSTALLATION NOTES

Since the AMC 2100MKII generates modest amounts of heat, adequate ventilation is required. Do not place the amplifier on a soft surface such as a carpeted surface that may block the ventilation holes of the bottom cover. Also, avoid obstructing the ventilation holes in the top cover.

**CAUTION:** To prevent the risk of fire or shock, do not allow any liquid or moisture to enter into the internal parts of this product. If any liquid accidentally enters this product, shut off the power and remove the AC power cord immediately. If the liquid is anything other than clean water or pure alcohol, have the product examined by a service technician. Servicing of this product should be referred to a qualified service technician.

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

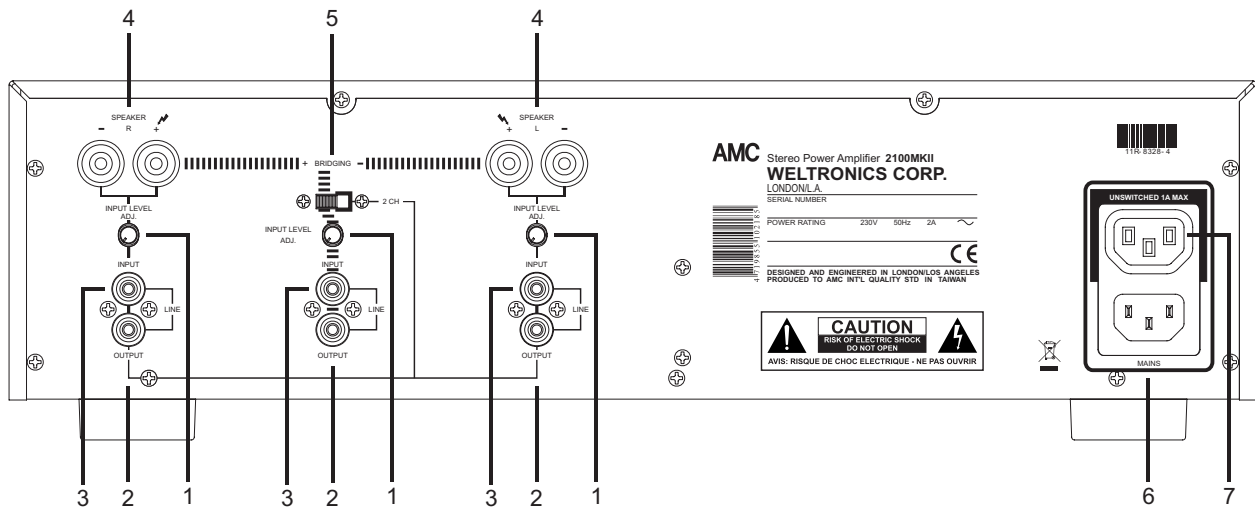
Note: Export units for certain markets have moulded mains plugs fitted as standard.

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.

# REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

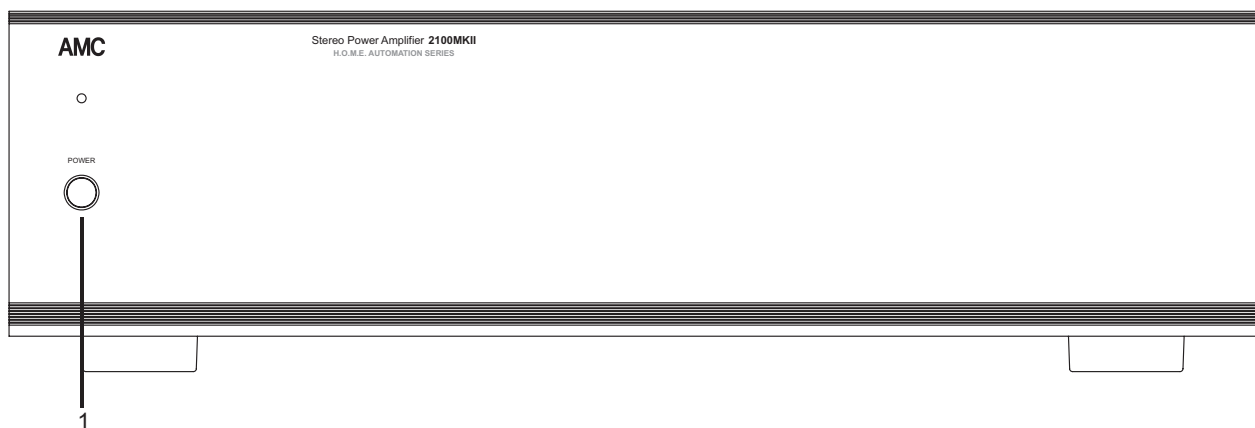
## REAR PANEL



1. INPUT LEVEL CONTROL
2. LINE OUTPUT
3. LINE INPUT
4. LOUDSPEAKER TERMINALS

5. BRIDGING/2CH "MODE" SWITCH(Optional)
6. AC RECEPTACLE
7. AC OUTLET

## FRONT PANEL



1. POWER SWITCH

# REAR PANEL CONNECTIONS

## 1. INPUT LEVEL CONTROLS

Each channel of the 2100MKII has its own independent level control. Before turning on the 2100MKII for the first time, make sure that all level controls are set to their fully clockwise position. These controls can be used for various functions. For example, they can be used to match the levels of loudspeakers in a multi-room installation, or to lower the sensitivity of the power amplifier, so that the volume control on pre-amplifier is at a more convenient and usable position. They can also be used to optimize the balance in a stereo system.

## 2. LINE OUTPUTS

Each input has an accompanying line output which will pass the signal onto another amplifier input or other line-level device.

## 3. LINE INPUTS

There are three (one for the BRIDGING mode) RCA phono connectors on the back panel that connect to the inputs of each of the power amplifiers. Connections to these inputs are made with reference to the MODE SWITCH settings described above;-

BRIDGING MODE: Connection the input into the RCA jack of LINE INPUT below "BRIDGING" at the rear panel.

2CH MODE: In this mode, the 2100MKII operates as a 2 channel amplifier. Connections to the inputs of these amplifiers are made the RCA jacks of L and R.

## 4. LOUDSPEAKER TERMINALS

The 2100MKII is equipped with binding post type speaker terminals that are designed to handle the extremely high peak currents that this amplifier is capable of giving. Connections from these terminals to the loudspeakers should be of heavy-duty wire. Standard wire of 16 gauge or thicker is

recommended specially if low impedance loudspeakers are used.

The following describes the connections for BRIDGING and 2 channel operation;-

BRIDGING MODE: When the MODE SWITCH is set to BRIDGING operation, only the red terminals on the 2100MKII are used. For this mode of operation, connect the red terminal of the speaker to the red terminal of R CH and the black speaker terminal to the red terminal of L CH.

2 CH MODE: When the MODE SWITCH of the 2100MKII is set to 2 channel operation, simply connect the wires from the right speaker to the terminals (marked + and -) of R CH, the left speaker to L CH and so on. Make sure that the red terminal on each loudspeaker is connected to the corresponding red terminal on the amplifier and likewise for the black terminals.

## 5. BRIDGING/2CH"MODE"SWITCH(Option)

This switch allows the 2100MKII to operate in several modes depending on the number of loudspeakers to be connected. This mode of operation is defined as follows;-

BRIDGING MODE: With this switch in the BRIDGING position, the 2100MKII becomes a one channel amplifier capable of driving one 8 ohm loudspeaker at 200 watts. In this mode, the 2100MKII can be used as a high power, audiophile quality power amplifier.

**CAUTION:** In the BRIDGING mode, the speaker terminals should be directly wired to the loudspeaker and not to any accessory device like headphones' adapters etc. That may share a common ground with other channels.

2CH MODE: With this switch in the 2CH position, the 2100MKII becomes a two channel (stereo) amplifier capable of driving two 8 ohm loudspeakers at greater than 100 watts per channel or.

driving two 4 ohm loudspeakers at greater than 200 watts per channel.

#### **6. AC RECEPTACLE**

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

#### **7. A/C OUTLET**

The A/C convenience outlet is 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 UNAUTHORIZED REPAIR MAY INVALIDATE YOUR WARRANTY.***

## **FRONT PANEL CONTROLS**

### **1. POWER SWITCH**

The press button switch marked power can be used to switch the 2100MKII on or off. When the 2100MKII is switched on, the small indicator above the power switch will glow blue.

# SPECIFICATIONS

## BRIDGING MODE

Rated power into 8 ohm (IHF) . . . . .	250 W
Rated T.H.D. 20Hz-20KHz . . . . .	0.03 %
Clipping power into 8 ohm . . . . .	>300W
Dynamic power into 8 ohm (IHF) . . . . .	500W

## 2CH MODE

Rated power into 8 ohm (IHF) . . . . .	100 W
Rated power into 4 ohm (IHF) . . . . .	200 W
Rated T.H.D. 20Hz-20KHz . . . . .	0.03%
Clipping power into 8 ohm . . . . .	115W
Clipping power into 4 ohm . . . . .	230W
Dynamic power into 8 ohm . . . . .	150W
Dynamic power into 4 ohm . . . . .	300W
Current limit into 0.1 ohm and 1 ohm . . . . .	32 Amps
Damping factor . . . . .	>200
Input sensitivity for 1W/ Rated power into 8 ohm . . . . .	100mV/1Vrms
Input impedance . . . . .	22Kohm//150pF
Frequency response 20Hz-20KHz . . . . .	+/-0.2dB
-3dB . . . . .	5Hz/110KHz
Signal to noise ratio "A" WTD (ref. 1W/8 ohm) . . . . .	100 dB
Separation 20Hz-20KHz . . . . .	>70dB

## OTHERS

Dimensions (WxHxD) . . . . .	430x112x288 mm
Net weight . . . . .	9.4 Kg
Shipping weight (2 pieces) . . . . .	20.5 Kg

Weltronics Corp. reserved the right to improve its products at any time.  
Specifications are subject to change without notice.



# 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:

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

## 17. POWER LINES

(APPLIES TO TUNER AND RECEIVERS ONLY)

An outdoor antenna should be located away from power lines.

## 18. OUTDOOR ANTENNA GROUNDING

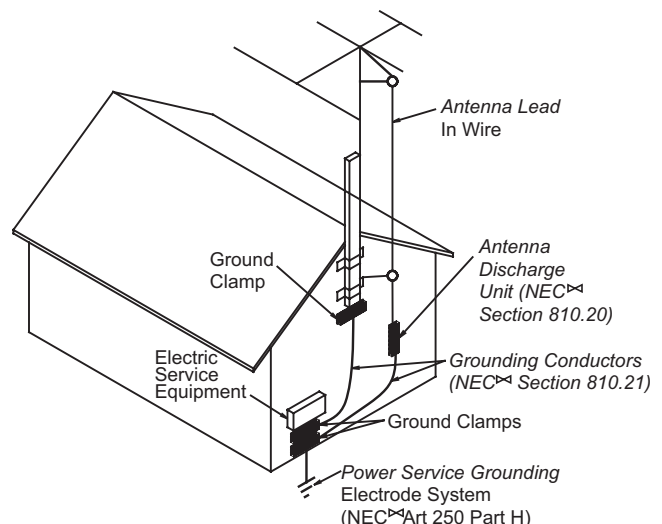
(APPLIES TO TUNER AND RECEIVERS ONLY)

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.

- a) Use No. 10 AWG (5.3 mm<sup>2</sup>) copper, No. 8 AWG (8.4 mm<sup>2</sup>) aluminum, No. 17 AWG (1.0 mm<sup>2</sup>) copper-clad steel or bronze wire, or larger, as a ground wire.
- b) Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83 m) apart.
- c) Mount antenna discharge unit as close as possible to where lead-in enters house.
- d) 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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