ADS WORLDWIDE

PUBLIC ADDRESS AMPLIFIER

Installation And User Instructions

Mixer Amplifiers

- ADS 30
- ADS 60

WARNING !

1. **Installation by qualified persons only.**
2. **Do not select another adjustment if speaker is in use !**
3. **No naked flame sources, such as lighted candles, should be placed on the apparatus.**
4. **Minimum distances of 30mm around the apparatus for sufficient ventilation.**
5. **Do not use appliance in tropical climate.**
6. **Not to be exposed to dripping or splashing.**

WARNING:THIS APPLIANCE MUST BE EARTHED

IMPORTANT

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

Green and Yellow:	**Earth**	**(E)**
Blue:	**Neutra**	**(N)**
Brown :	**Live**	**(L)**

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked by the letter E or by the safety earth symbol or coloured green and yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

If a 13 Amp (B.S.1363) plug or any other type of plug is used,a 5 Amp fuse must be fitted either in the plug or at the distribution board.

GENERAL INSTALLATION

DO NOT run microphone cables near mains, data, telephone or 100V line cables.

DO NOT run 100V line cables near data, telephone or other low voltage cables.

DO NOT exceed 90% of the amplifiers output power when using 100V line (speech only).

DO NOT exceed 70% of the amplifiers output power when using 100V line (high level background music).

DO NOT use re-entrant horn loudspeakers for background music unless the loudspeaker has been specifically designed for this purpose.

AVOID jointing the microphone cable, when this is unavoidable make sure a good screened connector is used, e.g. XLR.

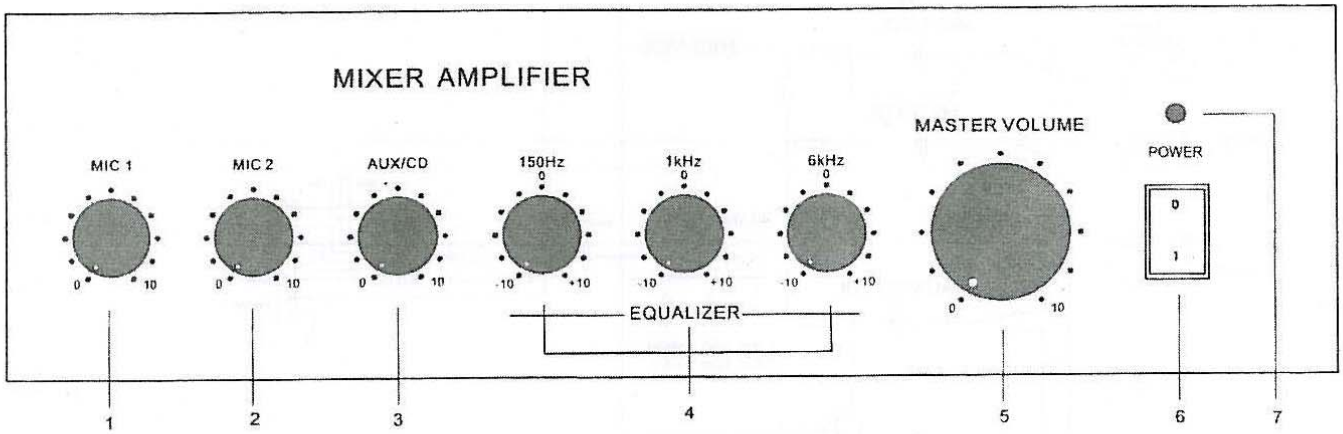
ALWAYS use a balanced or floating low impedance microphone terminating into a balanced input on long microphone cable runs.

ALWAYS use a mains grade double insulated cable for the loudspeaker cable runs.

ENSURE that all loudspeakers are in-phase.

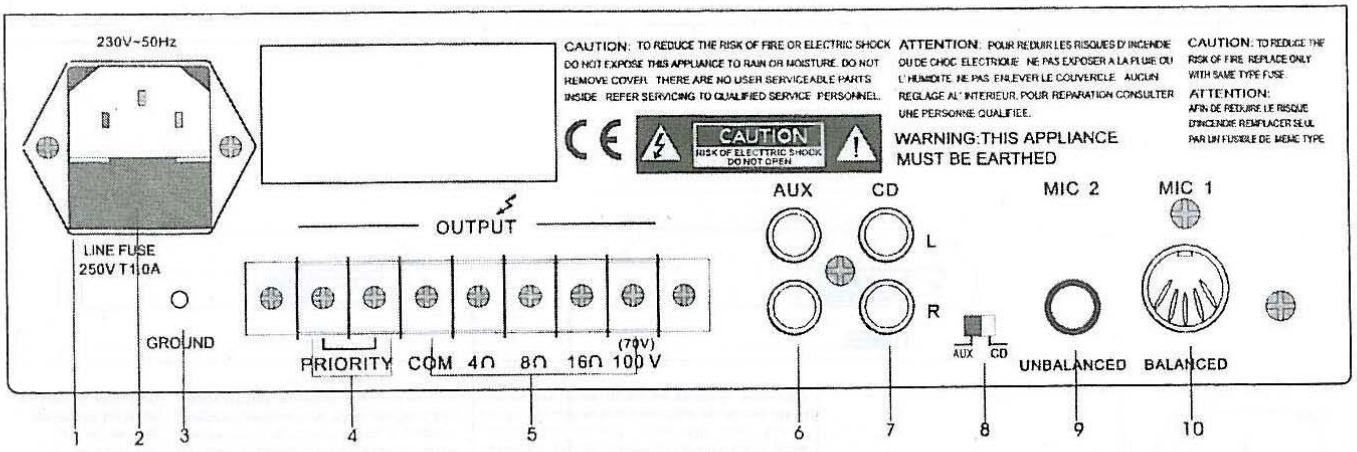
ENSURE that there are no short circuits on the loudspeaker line before connecting to the amplifier.

FRONT PANEL Mixer Amplifier

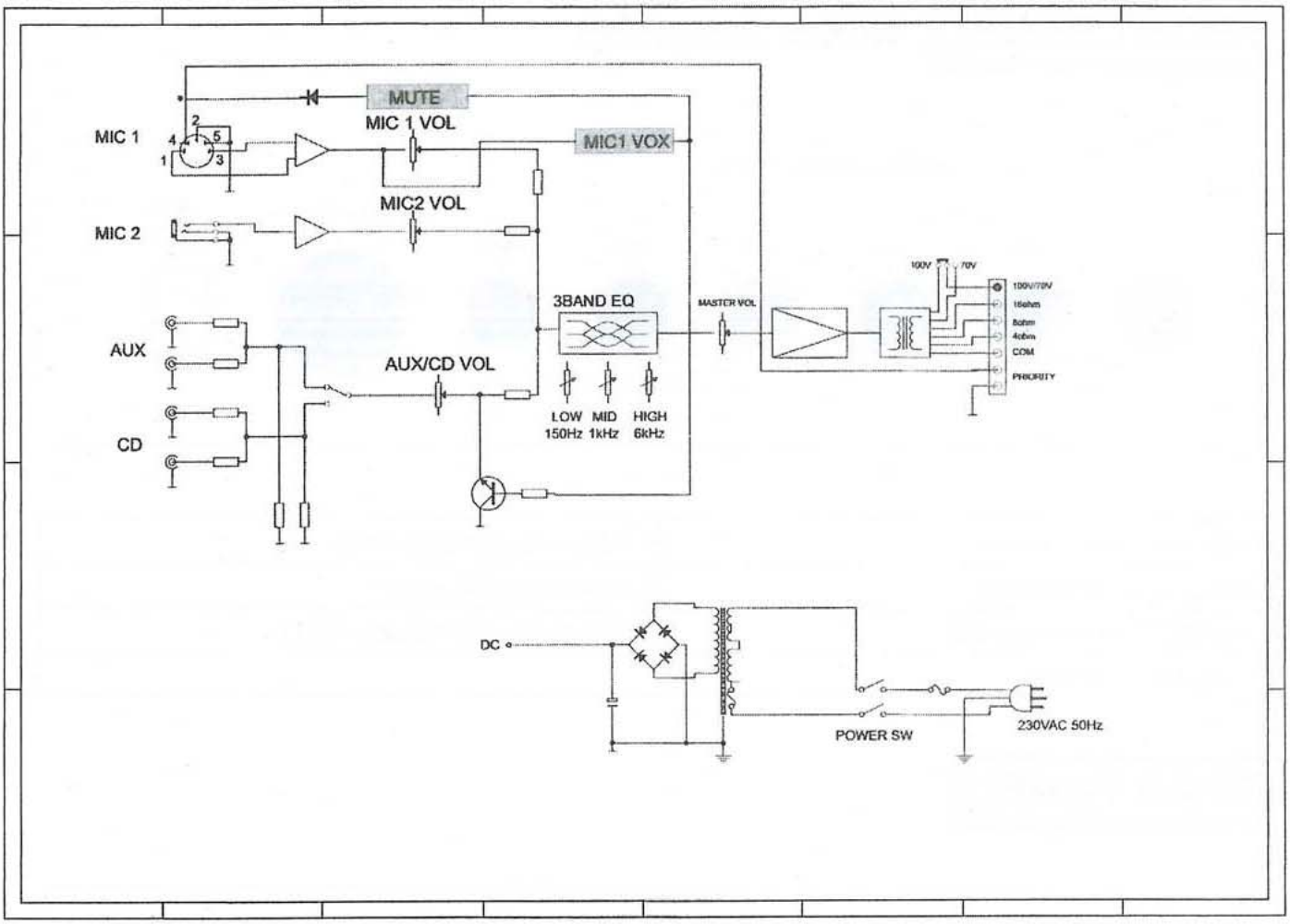


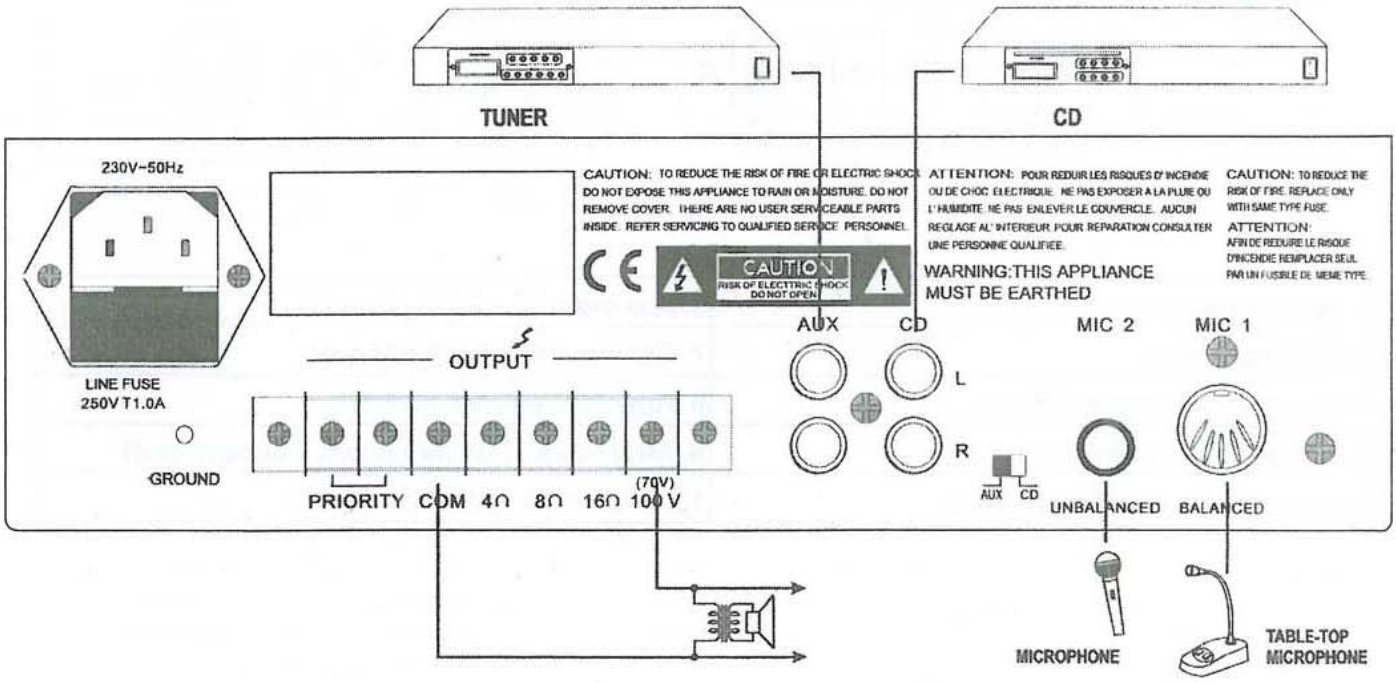
1. Mic 1 Volume Control	5. Master Volume Control
2. Mic 2 Volume Control	6. Power On/Off Switch
3. AUX/CD Volume Control	7. Power On/off Indicator LED
4. Equalizer Control	

REAR PANEL



1. Mains input soket	6. Aux input (2 x RCA phono)
2. AC fuse holder	7. CD input (2 x RCA phono)
3. Ground Connection Screw	8. Aux/CD Selector Switch
4. Manual priority terminals	9. Mic2 input (1/4" mono jack / unbalanced)
5. Loudspeaker output terminals	10. Mic1 input (DIN / balanced)


MUTE
MIC 1
MIC 1 VOL
MIC1 VOX
MIC2 VOL
MIC 2
3BAND EQ
MASTER VOL
AUX
AUX/CD VOL
CD
LOW MID HIGH
150Hz 1kHz 6kHz
100V
70V
100V/70V
16ohm
8ohm
4ohm
COM
PRIORITY
DC
POWER SW
230VAC 50Hz


TUNER
CD
230V~50Hz
CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT REMOVE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL
ATTENTION: POUR REDUIR LES RISQUES D' INCENDIE OU DE CHOC ELECTRIQUE NE PAS EXPOSER A LA PLUIE OU L' HUMIDITE NE PAS ENLEVER LE COUVERCLE. AUCUN REGLAGE AL' INTERIEUR POUR REPARATION CONSULTER UNE PERSONNE QUALIFIEE.
CAUTION: TO REDUCE THE RISK OF FIRE. REPLACE ONLY WITH SAME TYPE FUSE.
ATTENTION: AFIN DE REDUIRE LE RISQUE D'INCENDIE REMPLACER SEUL PAR UN FUSIBLE DE MEME TYPE.
CAUTION RISK OF ELECTTRIC SHOCK DO NOT OPEN
WARNING:THIS APPLIANCE MUST BE EARTHED
LINE FUSE 250V T1.0A
OUTPUT
GROUND
PRIORITY COM 4Ω 8Ω 16Ω 100V (70V)
AUX CD
L
R
MIC 2
MIC 1
AUX CD
UNBALANCED
BALANCED
MICROPHONE
TABLE-TOP MICROPHONE

Mains Connection

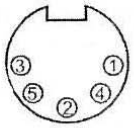
The supply transformer has been designed for use with 230Vac, mains.

Microphone Connections

Mic1 input is a balanced standard DIN jack on the rear panel. Wiring is as follows:

DIN (Balanced operation)

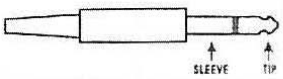
Pin1 : Signal (live)
Pin2 : GND
Pin3 : Signal (return)
Pin4 : Priority Control
Pin5 : GND



Mic2 input is a unbalanced standard 1/4" mono jack on the rear panel. Wiring is as follows:

1/4" mono Jack Plug (Unbalanced operation)

Tip : Signal
Sleeve : Screen

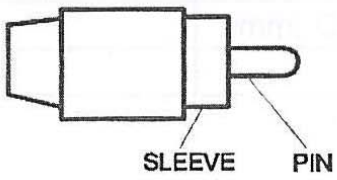


Aux/CD Connection

The equipment provides an auxiliary input which may be used for connecting other signal sources such as a Radio Tuner, CD or Cassette player. Turn the volume control clockwise to increase the volume or anticlockwise to reduce the volume.
The Aux/CD input sockets are standard RCA phono, two sockets are supplied and these are linked together internally, this allows stereo signal sources to be used without the need to obtain a special lead, however you may wish to check with the manufacturer of the signal source to ensure that no damage will result if the left and right output channels are put in parallel.

RCA Phono plug connections

Sleeve- Screen
Pin- Signal



Manual priority terminals:

provides contact closure muting of the Mic2 and Aux/CD input during paging.

Loudspeaker Connection

This equipment provides different types of loudspeaker output, these are 100V ,70V line and low impedance, you can only use one of these output at any one time, any attempt to use two or more of these may result in damage to the amplifier.

100V Line

These loudspeakers are most commonly used in Europe for PA distribution. When the amplifier is at full output 100V RMS will be present at the output terminals. Only use 100V line loudspeakers with this output. All loudspeakers are wired in parallel and the sum of the power tapping of each loudspeaker must not exceed the rated output of the amplifier, Ideally, due to the nature of loudspeaker and transformer impedances, it is advisable not to load the amplifier to greater than 70% of its rated output when using music sources.

70V Line (Inner pcb selectable)

This system is common in the USA, it operates on exactly the same principles as 100V line except that at rated output the amplifier will have 70V RMS on its output terminals.

Low Impedance (4. 8. 16Ω)

This output allows connection of standard low impedance loudspeakers, the minimum load impedance must be 4Ω, when two or more loudspeakers are used ensure that they are wired in such a way that the load impedance is between 4Ω and 16Ω.

TECHNICAL SPECIFICATIONS

Model	ADS 30	ADS 60
Power output rms	30W	60W
AC power 50Hz	230V	
THD at rated power	<2.5%	
Speaker Outputs	4Ω, 8Ω, 16Ω,70V, 100V	
Frequency Response	100Hz – 20kHz	
Priority mic input	1mV@600ΩBal	
Other mic input	1mV@600Ω	
AUX input	200mV@50KΩ	
CD input	500mV@50KΩ	
Sig/noise ratio, mics	> 60 dB	
Sig/noise ratio, AUX/CD	> 70 dB	
Tone Controls 150Hz,1kHz,6kHz	±10 dB	
Dimentions (H xW xD)mm	90 x270 x260mm	
Weight, kg	4.25	5.0

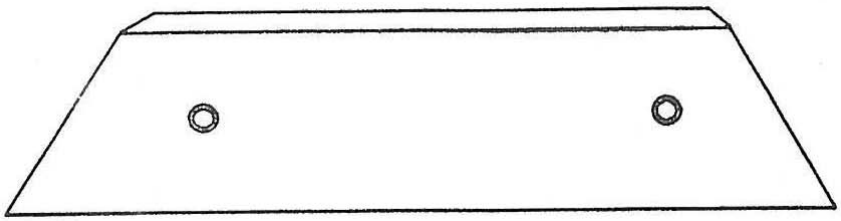
Kestrel 4

Wall Mounted Cabinet Loudspeaker

Fitting Instructions

1. Unpack Loudspeaker.
2. Remove hanging bar from restraining wire.
3. Use the hanging bar as a jig to mark hole locations on wall.
4. Secure hanging bar to wall using suitable fixings (fit hanging bar to wall the correct way round as shown).

Screw to wall this way round



1. Re attach the restraining wire to hanging bar.
2. Adjust the transformer wattage by moving the grey wire to the desired taping on the terminal-block.(this is tapped to the 4w as standard)
3. Connect 100V line input to terminal block + -.
4. Fit cabinet over hanging bar.

Technical specifications

Cabinet Size:	H 200mm W 250mm D 85mm
Power Taps:	4W 2W 1W .5W .25W .125W
Frequency Range:	150Hz - 15kHz
SPL:	86dB(A) at 1watt/ 1 meter
Line Voltage:	100V
Loudspeaker Impedance:	8Ω

WARNING

This product should not be placed near equipment that can be affected by magnectic fields

CE

ADS worldwide strive to improve their products continuously, and therefore reserve the right to make changes to drawings and technical specifications at any time without notice

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