

v. 9.september.2009

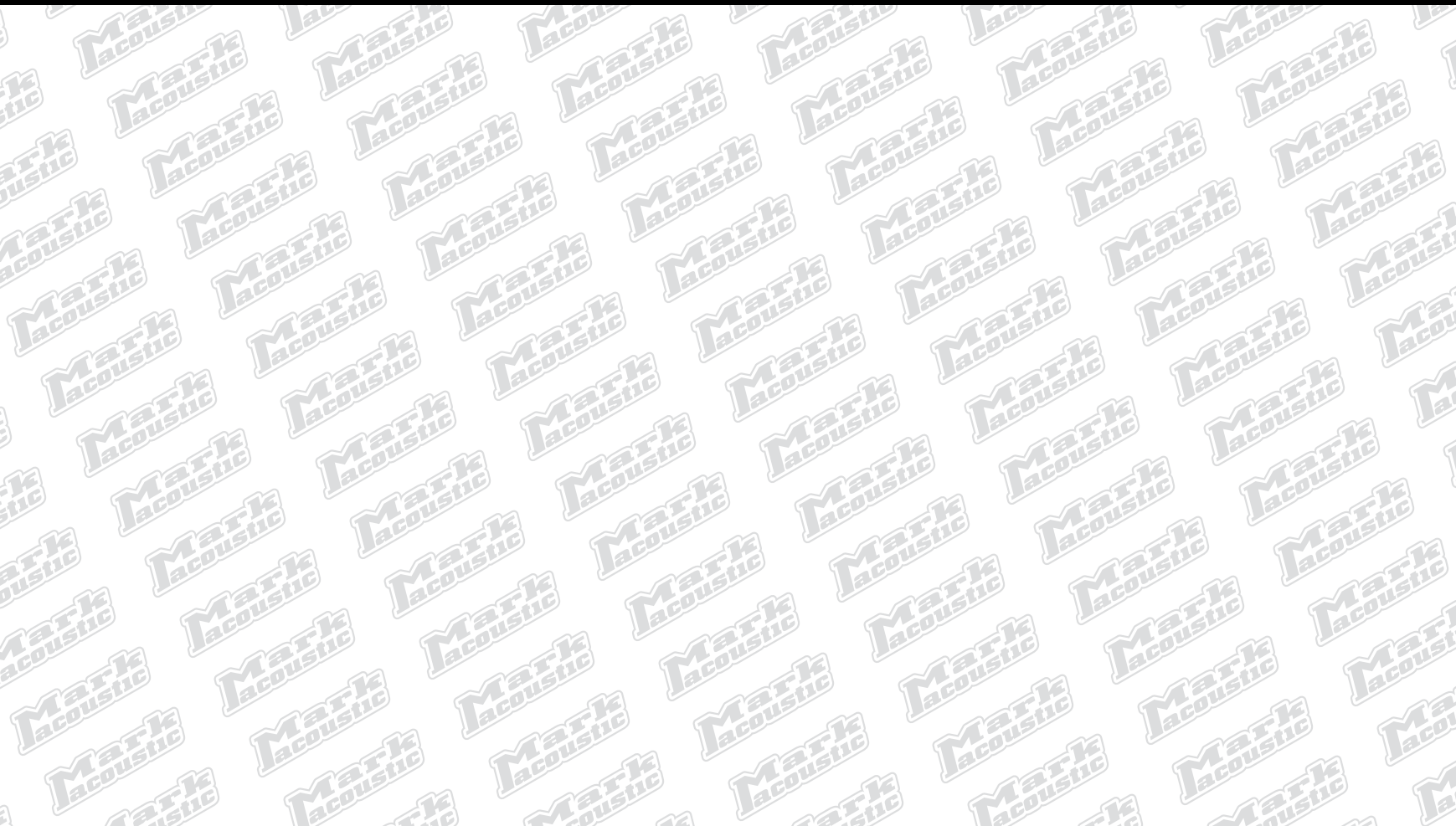


**Mark  
Jacoustic**

AH250 - AC601 - AC101 - AC121

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**OWNER'S MANUAL**



## 1. IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions;
- 2) Keep these instructions;
- 3) Heed all warnings;
- 4) Follow all instructions;
- 5) Do not use this apparatus near water;
- 6) Clean only with dry cloth;
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions;
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat;
- 9) Do not defeat the safety purpose of the polarized or ground-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet;
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus;
- 11) Only use attachments/accessories specified by the manufacturer;
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time;
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or when the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped;
- 14) "Warning: to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture; and objects filled with liquids, such as vases, should not be placed on this apparatus";
- 15) The socket outlet shall be installed near the equipment and shall be easily accessible;
- 16) The power cord must be unplugged prior to servicing.

## 1. PRÉCAUTIONS D'EMPLOI

- 1) Lire ces instructions;
- 2) Conserver ces instructions;
- 3) Suivre tous les conseils d'utilisations;
- 4) Suivre toutes les instructions;
- 5) Ne pas utiliser cet appareil au bord de l'eau;
- 6) Nettoyer uniquement avec un chiffon humide;
- 7) Ne pas bloquer le système de ventilation. Installer conformément aux instructions du fabricant;
- 8) Ne pas installer l'appareil près d'une source de chaleur tel qu'un radiateur, un fourneau, ou bien un autre appareil qui produit de la chaleur;
- 9) Ne pas modifier le système de sécurité de la fiche polarisée ou de la fiche pour les prises de terre. Une fiche polarisée a deux broches, l'une étant plus distante de l'autre. Une fiche pour prise de terre a deux broches et une pointe pour la masse. La broche plus distante et la pointe pour la masse ont été installées pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise de courant consulter un électricien pour la substitution;
- 10) Protéger le cordon d'alimentation afin qu'il ne soit pas piétiné ou écrasé tout particulièrement au niveau des fiches, des prises de courant femelles, et des parties qui sortent de l'appareil;
- 11) Utiliser uniquement les accessoires recommandés par le fabricant;
- 12) Ne pas brancher l'appareil en cas d'orage accompagné d'éclairs. Le débrancher en cas de non utilisation prolongée;
- 13) S'adresser à un service assistance agréé si l'appareil a subi des dommages, si le cordon d'alimentation ou la fiche a été endommagé, si un liquide a été renversé sur l'appareil ou bien si un objet est tombé dans l'appareil, si ce dernier a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou s'il est tombé;
- 14) "Avertissement: pour réduire le risque du feu ou de décharge électrique, n'exposez pas cet appareil à la pluie ou l'humidité et les objets remplis de liquides; tels que des vases, ne devraient pas être placés sur cet appareil";
- 15) La prise de courant doit être installée près de l'appareil et doit être facilement accessible;
- 16) La fiche principale doit être débranchée avant toute opération d'entretien.

## MORE INFORMATION

For warranty and service information, please contact your local Markbass distributor (contact information available at [www.markbass.it](http://www.markbass.it)). For more technical information, please visit us at [www.markbass.it](http://www.markbass.it) and fill out the form on the Contact Us page. We hope you enjoy your amp and use it to make great music!

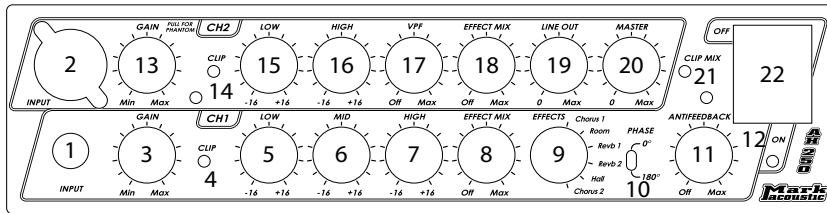


"The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons."



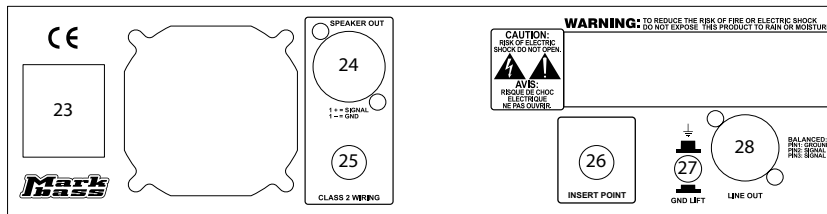
"The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product."





## 2. AH250 FRONT PANEL

- 1 UNBALANCED 1/4" INPUT JACK
- 2 BALANCED XLR / 1/4" COMBO INPUT JACK
- 3 CH1 GAIN
- 4 CH1 CLIP LED
- 5 CH1 LOW EQUALIZATION CONTROL KNOB
- 6 CH1 MID EQUALIZATION CONTROL KNOB
- 7 CH1 HIGH EQUALIZATION CONTROL KNOB
- 8 CH1 EFFECT MIX CONTROL KNOB
- 9 EFFECT SELECTION KNOB
- 10 PHASE SWITCH
- 11 ANTIFEEBACK CONTROL KNOB
- 12 POWER ON LED
- 13 CH2 GAIN (PULL OUT TO ENGAGE PHANTOM POWER ON BALANCED XLR - 2 -)
- 14 CH2 CLIP LED
- 15 CH2 LOW EQUALIZATION CONTROL KNOB
- 16 CH2 HIGH EQUALIZATION CONTROL KNOB
- 17 CH2 VPF FILTER LEVEL CONTROL KNOB
- 18 CH2 EFFECT MIX CONTROL KNOB
- 19 LINE OUT LEVEL KNOB
- 20 MASTER VOLUME LEVEL KNOB
- 21 MIX CLIP LED
- 22 MAIN ON/OFF SWITCH



## 3. AH250 REAR PANEL

- 23 AC POWER SOCKET
- 24 SPEAKER OUT SPEAKON / 1/4" COMBO JACK
- 25 SPEAKER OUT 1/4" JACK
- 26 INSERT POINT
- 27 GROUND LIFT CONTROL SWITCH
- 28 LINE OUT XLR

#### 4. AH250 TECHNICAL DETAILS

##### INPUTS

INPUT CH1 UNBALANCED  
INPUT CH2 UNBALANCED  
BALANCED  
INSERT POINT

impedance: 500 Kohm, max. voltage: 10 Vpp  
impedance: 1 Mohm, max. voltage: 10 Vpp  
impedance: 1 Mohm, max. voltage: 20 Vpp  
impedance: 10 Kohm, max. voltage: 20 Vpp

##### CONTROLS

GAIN CH1  
GAIN CH2  
LINE OUT  
PHANTOM POWER  
GROUND LIFT  
EFFECT MIX  
PHASE  
ANTIFEEDBACK  
MASTER VOLUME

-45 dB to +28 dB range  
-43 dB to +26 dB range  
level control on front panel  
48V DC (on CH2 Input, pulling out the CH2 GAIN knob)  
switch on rear panel  
Internal effect only  
switch on front panel (0° - 180°)  
20 Hz (off) to 400 Hz range

##### EQUALIZATION CH1

LOW  
MID  
HIGH

40 Hz; level: ±16 dB  
600 Hz; level: ±16 dB  
6 kHz; level: ±16 dB

##### EQUALIZATION CH2

LOW  
HIGH  
VPF (Variable Pre-shape Filter)

60 Hz; level: ±16 dB  
5 kHz; level: ±16 dB  
center frequency 380 Hz (cut)

##### ONBOARD DIGITAL EFFECTS

CHORUS 1  
ROOM  
REVB 1  
REVB 2  
HALL  
CHORUS 2

##### OUTPUTS

INSERT POINT  
LINE OUT  
SPEAKER OUT

unbalanced, max. voltage 25 Vpp  
balanced XLR, max. voltage 20 Vpp  
speakon / 1/4" combo jack, 1/4" jack

##### OTHER

HEIGHT  
WIDTH

2 rack units (3.16 in. / 80.3 mm)  
10.87 in. / 27.6 cm (19 in. / 48.3 cm with  
rack ears)

DEPTH  
WEIGHT

10.04 in. / 25.5 cm  
6.39 lbs / 2.9 kg

OUTPUT POWER

250W RMS @ 4 ohm, 150W RMS @ 8 ohm

POWER REQUIREMENT

100; 120V; 230V; 240V 50/60Hz (Voltage  
is factory preset according to region of  
sale).

Markbass amps/combos are manufactured to  
be sold and used in the country of purchase,  
and are factory preset to that country's  
voltage.

Due to homologation issues, the voltage  
may not be changed.

##### FUSE

EUROPE  
AUSTRALIA/UK  
USA/CANADA  
JAPAN

3.15 A 250VT 5x20  
3.15 A 250V T 5x20  
6.3 A 250V T 5x20  
6.3 A 250VT 5x20

## 5. COMBOS AND CABINETS: TECHNICAL DETAILS

COMBO SERIES	AC601	AC101	AC121
<b>SPEAKER SIZE (INCHES)</b>	1X6"	1X10"	1X12"
<b>TWEETER</b>	1" HF COMP. DRIVER	1" HF COMP. DRIVER	NONE
<b>CROSSOVER FREQUENCY</b>	3.5 KHZ	3.5 KHZ	NONE
<b>CAB POWER HANDLING (AES STANDARD)</b>	150W RMS	200W RMS	400W RMS
<b>FREQUENCY RESPONSE</b>	55HZ TO 18KHZ	45HZ TO 20KHZ	40HZ TO 12KHZ
<b>CABINET SENSITIVITY (DB SPL)</b>	98	101	99
<b>CABINET IMPEDANCE</b>	8 Ω	8 Ω	8 Ω
<b>REFLEX</b>	REAR	REAR	REAR
<b>WEIGHT KG.</b>	8.8	10.5	12.4
<b>WEIGHT LBS.</b>	19.4	23.15	27.34
<b>WIDTH MM.</b>	313	353	380
<b>WIDHT INCHES</b>	12.32	13.9	14.96
<b>HEIGHT MM.</b>	331	367	440
<b>HEIGHT INCHES</b>	13.03	14.45	17.32
<b>DEPTH MM.</b>	285	367	345
<b>DEPTH INCHES</b>	11.22	14.45	13.58
<b>PREAMP</b>	SOLID-STATE	SOLID-STATE	SOLID-STATE
<b>POWER AMP 250W @ 4 Ω / 150W @ 8 Ω</b>	ANALOG	ANALOG	ANALOG
<b>POWER SUPPLY</b>	ALL MODELS ARE EQUIPPED WITH CUSTOM-DESIGNED MARKBASS DIGITAL POWER SUPPLIES		



Product specifications are subject to change without notice



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