



AMA-1mk ii 100watt acoustic amplifier

Acoustic Amplifier Handbook



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Thank you for purchasing the Accusound AMA-1 acoustic amplifier. Please read the enclosed information. This will help you to understand the product in which you have invested and enable you to get the most out of it.

Please take note of the safety warnings and as with all electrical goods, do not attempt to open the product under any circumstances. There are no user serviceable parts. All remedial work should be referred back to Accusound.

Always protect your amplifier from damp. Any moisture on the cabinet should be immediately dried using a cloth to prevent any from entering the product through connector sockets or other points.

This unit must only be used with mains supply that has a protective earth connection.

Before switching on your amplifier, ensure all volume controls are at minimum and connect all inputs and outputs.

Your instrument or microphone should be connected to input 1 or 2, each have the same facilities so you may chose either and achieve the full use of the amplifier.

All the connectors are on the left of the amplifier, and all the controls on the right.



Input 1 & 2 connectors:

These XLR/Jack input connectors will accept either 3pin male XLR connectors or 1/4" (6.35mm) jack plugs. The input sensitivity is the same whichever connector is used. Phantom power may be applied to the XLR connector, no effect will be noticed if the phantom power button is on when you use the 1/4" jack connection.



Gain, Level and Phantom Power:

This control section changes the level of the input signal taken from your instrument or microphone.

The Input Clip LEDs show when there is a good signal level and when the level is too high. With a low level input signal these LEDs may not illuminate. With a good

signal level they will flash or remain constant Green. When the signal is too high the LEDs will remain constant Red. When the LEDs are mostly Green and only occasionally flash Red, then the signal level is at its optimum level. To set these input the signal to the amplifier at the highest level that is likely to be used. This means if you are playing an instrument, play it loudly, if singing then sing loudly. Adjust the Green Gain knob until the LEDs are Green with only occasional Red flashes. Do not be afraid to use the green control as maximum, it is designed to operate at that level. Whilst performing this setting point, the White Level knobs will do nothing. To get the most out of your amplifier it is best to use the Gain control at as high a level as possible whilst still maintaining the sound you want.

Pressing the black Phantom buttons, applies 12v phantom to Channel 1 or 2, the LED will illuminate Red when Phantom is present. Phantom Power only appears on XLR connections.

The level knobs allow the user to balance the two channels and should be used, if possible, above 4 or 5.



Master Level Control:

The Master Level control, situated at the bottom right of the amplifier panel, controls the overall output level of the amplifier. This control should be used at any level to produce the required output level.



Treble/Mid/Bass:

These yellow knobs provide 3 bands of tone control. Turning any knob anti-clockwise will reduce the level of that band, Treble, Mid or Bass, rotating it clockwise increases the level in that band. Note that increasing these controls could cause overload, if this happens simply reduce the level by decreasing the Level using the White knobs at the top of the panel.



Reverberation:

There are 16 different types of reverberation available on each channel. It has to be the same type of reverberation on each channel but the level of this reverberation can be adjusted individually on

each channel from zero to max. The large Red knob, Effects Select, allows any one of the 16 types of reverberation to be selected. There is a list of the reverb styles associated with each number on the back of the amplifier. The Red knobs, one on each side, allow the level of reverberation to be adjusted that is applied to each channel. The smaller Red knob below the Effects Select knob called Effects Parameter allows adjustment of one characteristic of each individual reverberation. The parameter that is adjustable is indicated in the next table, but it can be such characteristics as reverberation decay time, chorus depth, flanger rate etc



Output Clip:

The Output Clip LED indicates when too much signal is being fed through the amplifier. If only short flashes of Red are visible then the level is near maximum if the LED becomes constantly Red then there will be distortion from the speaker and the level is too high. The Master level control should be turned anti-

clockwise to reduce the output level.

Reverberation Parameters:

Reverberation Description	Parameter
Spring Reverb	Reverb Delay Time
Room Reverb	Reverb Delay Time
Slapback Reverb	Reverb Delay Time
Hall Reverb	Reverb Delay Time
Chorus Reverb	Reverb Delay Time
Chorus	Chorus Depth
Delay	Delay Time
Delay Reverb	Delay Time
Octave	Octave up/down
Rotary Speaker	Rotation Speed
Reverb Tremolo	Tremolo Rate
Rotary Speaker	Rotation Speed
Flanger	Flanger Rate
Phaser	Phaser Rate
Tremolo	Tremolo Rate
LFO Wah	Wah Rate

This is written specifically for the harp play, please substitute your instrument where ever it says "harp"



Please start by turning the knobs to the positions shown in the picture. Connect your harp pickup to the input called "Channel 1", top left of the picture. The input will accept either 3 pin male XLR or 1/4" jack plug.

Connect the mains cable to the mains socket, bottom left and press the top of the illuminating switch next to it, the switch should illuminate if not check you have connected the mains cable correctly and that you have switched on the power at the mains socket.

If your pickup requires phantom power, please press the small black button to the left of the red LED under the word "Phantom" at the top right of the picture. The red LED should now illuminate, if you do not require phantom power please ignore this step.

Next turn the green knob, top right under "Channel 1 Gain" to position "3".

Now play your harp quite vigorously and see that the LED under the words "Input Clip" illuminates green. Continue to turn the green gain knob and



playing your harp until the LED starts to illuminate RED. Now turn the green knob slightly anti-clockwise so the LED only illuminates green, perhaps with a very occasional red flash. Don't be concerned if the LED does not flash Green, it simply means that your instrument has a low, but probably useable signal. Next turn the white "Master" knob, bottom right, to 4 or 5 and turn the white knob just under the green "Gain" knob to 3 or 4.

Now play your harp, sound should be coming from the amplifier.

If it is too quiet or you cannot hear any sound, turn the white knob under the green "Gain" knob to 5 or 6 or further until you can hear yourself play.

If you need to turn this knob to 8 or above, then also turn the "Master" white knob to 5 or 6 or above until you get the level of sound you require.

You are now setup.

It is better to have the Green and/or White knob at the top high and the white "Master" knob low rather than the other way round.

If you are using two instruments then do the same with the other instrument, plugging it into Channel 2.

Use the white knobs at the top right to balance the level between the two instruments and the white "Master" knob at the bottom right to increase or decrease the overall level.

The yellow knobs give 3 bands of tone control, turn anti-clockwise to decrease the band and turn clockwise to increase the band. There is a centre notch to locate the neutral position.

The red knobs are for the reverberation. The large knob indicates the type of reverberation being used and the two red knobs, "Effects Level", either side of the large knob adjust the amount of reverb applied to each channel.

The red knob "Effects Parameter" changes some of the characteristics of the reverb chosen, this should be adjusted to hear the changes, some are very subtle. Which parameter is changed is listed on page 3, this is also listed on the back of the amplifier.

Please now experiment and learn how the amplifier will work for you.

Call or email if you need help or assistance.
david@accusound.com, or 07774 782503

Amplifier:	100watts class D amplifier.
Speaker:	Full range dual cone 8" 4ohm 50Hz - 19kHz.
Speaker out:	Output socket to connect passive aux speaker.
Dimensions:	24cm(depth) x 26.5cm(height) x 34cm(width)
Weight:	8kg
Finish:	Black splatter effect.
Mains:	3 pin IEC socket with on/off switch and fuse.
Inputs:	2 identical channels; balanced XLR or unbalanced 1/4" jack
Phantom power:	12v switchable on both channels.
Tone controls:	Both channels identical; Bass +/-10dB 120Hz; Mid +/- 10dB 800Hz; Treble +/-10dB 10kHz.
Reverberation:	16 programs available on both channels, level independently adjustable.
DI Output:	Balanced, switchable pre/post control.
Phones:	Mono feed signal with independent level control.
Power:	240AC 50 200VA IEC socket, UK lead supplied.

Must only be used with mains supply that has a protective earth connection.