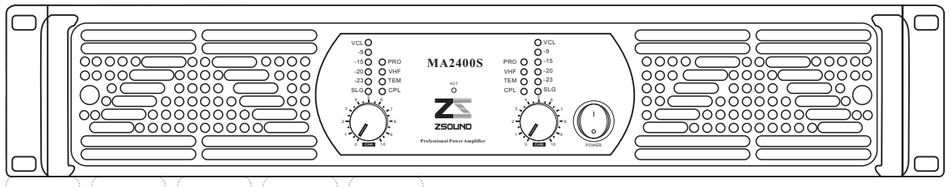
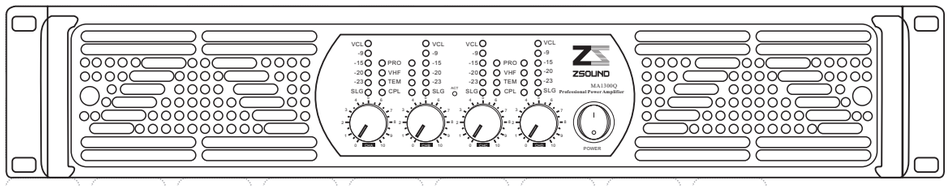
ZSOUND

User’ s Manual





MA SERIES

(Two/four channel)

Professional Power Amplifier

Contents

WARNING NOTICES

SAFEGUARDS

Electrical energy can perform many useful functions.This unit has been engineered and manufactured to assure your personal safety.Improper use can result in potential electrical Shock or fire hazards.In order not to defeat the safeguards, observe the following precautions for its installation,use and servicing.

Explanation of Graphical Symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION
RISK OF ELECTRIC SHOCK:
OPEN ONLY IF QUALIFIED
AS SERVICE PERSONNEL

WARNING:TO PREVENT FIRE OR ELECTRIC SHOCK,DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

IMPORTANT NOTE

ATTENTION:This unit must be protected from damp because of the risk of fire and the possibility of electric shocks.

1. Make sure that you have the correct mains voltage.Only operate the unit at the mains voitage marked on the rear panel.

2. Make sure that nothing especially no metal objects are inserted into the device.This could result in electric shock or malfunction.

3. lf the unit is subjected to extreme fluctuations of temperature e.g.On being transported from outside into a heated room,condensation can form.The unit should not be used until it has reached room temperature.

4. ln the event of water or any other fluid being accidentally spilt on the unit switch the unit off immediately and sendit to a qualified service workshop for inspection.

5. Make sure that the unit is always well ventilated and never exposed to direct sunlight

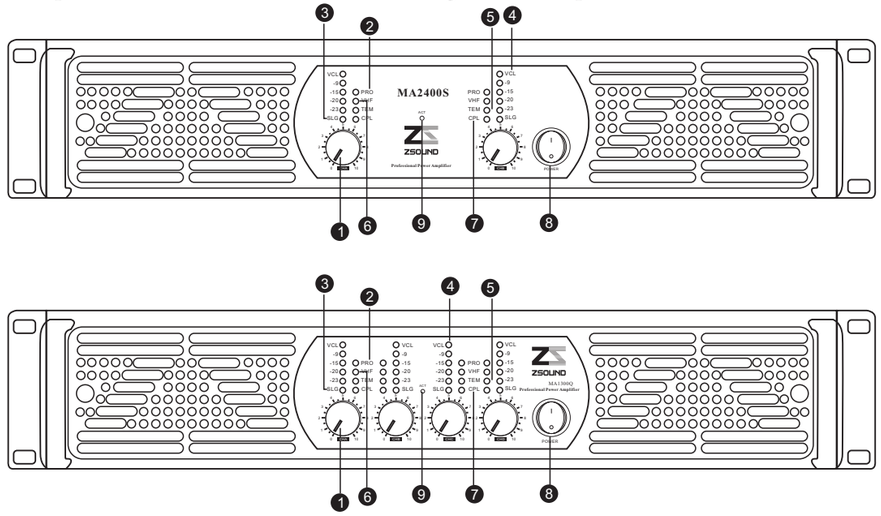
6. Do not use sprays to clean the unit as they have a detrimental effect on the unit and could ignite suddenly.

7. The machine use single power switch,please cut off the power before fix.

8. Please do not put the cup,vessel of flower or container above the machine,In case the leak out water then cause the leakage current off the machine.

Front panel

The front panel LED area includes the following indicators per channel:



1.LEVEL CONTROL
Calibrated detente potentiometers to alter the total gain of the power amplifier. ln order to avoid distortions in mixing consoles upstream, these controls should normally be positioned between 0 and 10 . The calibrated markings show the additional attenuation directly.

2.PROLED
Auprotection under mute position.

3.SIG / HI-IMPLED
Green SIG Indicates output signal levels in normal operating range
Hi-lmp-High-impedance/open load detected (Orange)

4.Limit power LED
When this LED lights up,the Limit power function is working.

5.TEMP
This LED lights up if the limiter has been activated and the power amplifier is being operated at the clip level.If the LED flashes briefly,this is not a cause for concern.If this LED is lit permanently,the volume should be reduced to avoid overload damages to the connected loudspeaker systems.

6.VHF
VHF-Very High Frequency protection active(output muted)(Yellow constant)

7.CPL LED
CPL-(Orange constant with output muted):Low impedance/short circuit detection fault

8.POWER Switch/LED

Turn the unit power on(lights up)or off(lights out).

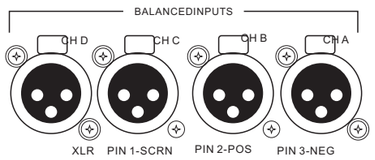
9.Output in dic ation

This LED lights up if a signal is present at the power amplifier output .The indicator goes off when the speaker line has shorted or a protective circuit has been activated thus indicating that there is no signal at the speaker output terminals.

Rear panel features introduction

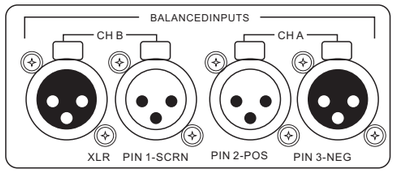
Rear

VCL


BALANCEDINPUTS
CH D
CH C
CH B
CH A
XLR
PIN 1-SCRN
PIN 2-POS
PIN 3-NEG

Audio input and output connections

BALANCED INPUT CONNECTIONS



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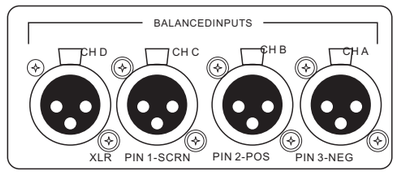
Audio inputs - 2 -channel models

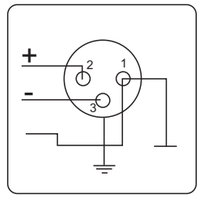


MA1300Q

Audio inputs - 4 -channel models

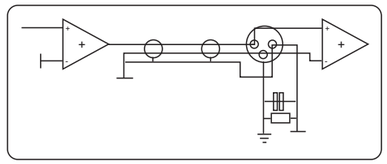
The XLR input connectors are electronically balanced, and wired according to the IEC 268 standard(pin2= hot). XLR input connectors should be wiredas follows:

Pin 1 Ground/shield
Pin 2 Hot (+)
Pin 3 Cold (-)



When linking the same source signal to several input channels, be aware that there is a limit to the number of channels an output source can "drive". A typical output source (e.g. a DSP crossover unit) can drive up to two or four amplifier channels before external line-drivers might be required to buffer the signal.

Unbalanced Input connections

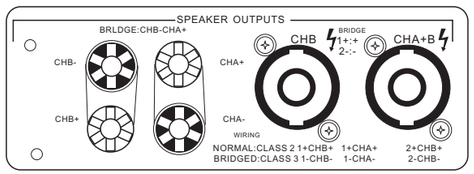


To connect an input to an unbalanced source, it is possible to connect pins 1 and 3 in the XLR plug at the amplifier end of the cable. However, a better method is to connect pin 3 to the shield at the source and of the cable, as this usually results in better hum and noise rejection. Balanced input connections are recommended whenever possible.

Speakon Output connections

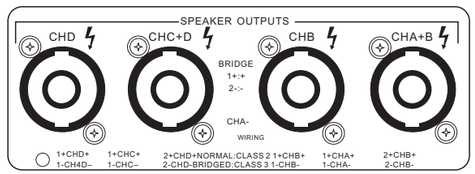
Refer to the instructions in this section if your amplifier is equipped with the Speakon output connectors.

MA2400S



Speakon outputs—2—channel models

MA1300Q

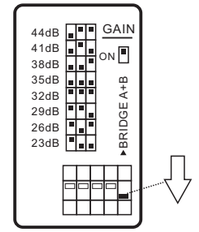


Speakon outputs—4—channel models

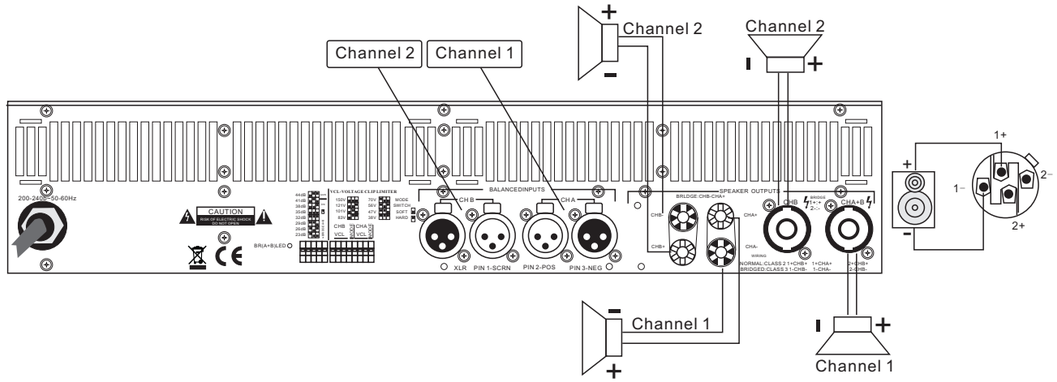
Stereo Mode

MA2400S

Before setting the mode , please turn off the amplifier and slide.the mode select switch to below (Picture 1) .In this mode, Channel 1 an Channel 2 operate independently (just traditional stereo amplifier). The sianal input into channel 1 can be output from channel 1 only, similarly, the signal input into channel 2 can be output from channel 2 only. The many channels , one by one in order type pushes.

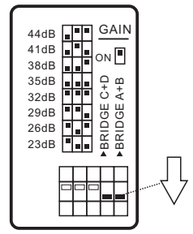


(Picture 1)

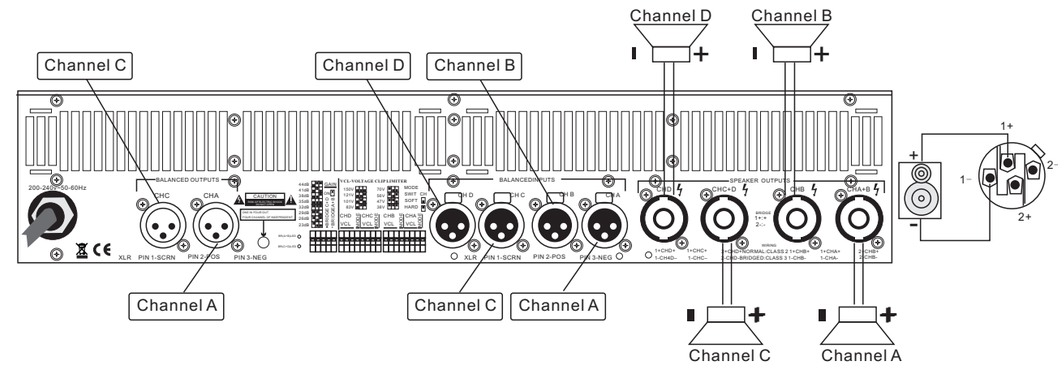


MA1300Q

Before setting the mode , please turn off the amplifier and slide.the mode select switch to below (Picture 2) .In this mode, Channel A an Channel B operate independently (just traditional stereo amplifier). The sianal input into channel A can be output from channel A only, similarly, the signal input into channel B can be output from channel B only. The many channels , one by one in order type pushes.

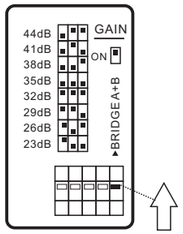


(Picture 2)

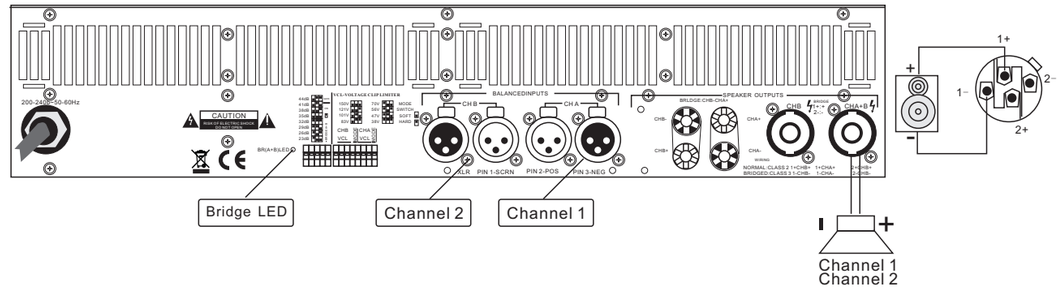


MA2400S

Before setting the mode , please turn off the amplifier and slide.the mode select switch to above (Picture 3), channel 1 and channel 2 are bridged. At time , the signal input into channel 1 will be output from the bridge and. On other hand , the output level control of channel 2 should be turn down to smallest . Only the volume control of channel 1 are used to control the volume of whole system.

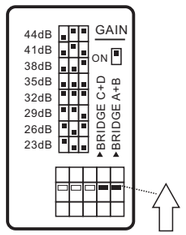


(Picture 3)

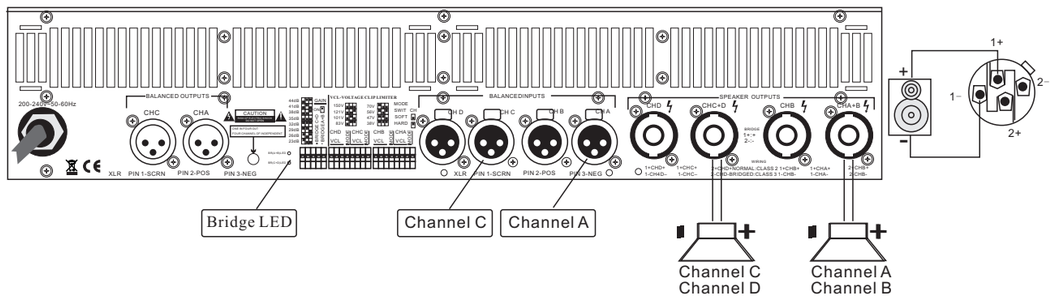


MA1300Q

Before setting the mode , please turn off the amplifier and slide.the mode select switch to above (Picture 4), channel A and channel B are bridged. channel C and channel D are bridged.At time , the signal input into channel 1 will be output input into channel A and channel C will be output from the bridge and. On other hand , the output level control of channel B and channel D should be turn down to smallest . Only the volume control of channel A and channel C are used to control the volume of whole system.



(Picture 4)



Model	
Output Power	
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