Professional Power Amplifier

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CA2 CA4 CA6 CA9 CA12 CA18 CA20 CA30 CA38

USER MANUAL

PREFACE

Thank you for your purchase of Professional Audio Equipment,Please read the manual carefully before you use the product , it will give you correct guidance,and it is useful for the equipment' s normal work and extending its life .All our products are promised one-year quality warranty. Provided any product found quality defect within one year,we will be responsible for repairing or replacing.

The staff have always been trying to develop their professional audio equipment with high-tech , high performance and with competitive price.Up to now, we own 70 different models,covering high , secondly, and low three levels and are able to provide high quality equipments for different kinds of occasions . In addition to universal used product,we even own the most advanced remote control amplifiers and power link system. In the process of research and development,we have been trying to inpour high-tech soul to every product, and to create high quality equipments.We have been adopting "ISO Quality Guarantee System" to supervise every product whether it has conformed with strict and professional requirements, whether it has received perfect after - sales services.

We do that only for one purpose: we hope our customers will really benefit from out high-tech,high - performance and competitive price products, as well as good after-sales services and technical backstopping .We are always doing out best to return our customers for their support to products, we make sure our customers feel they deserve purchasing professional audio equipment.

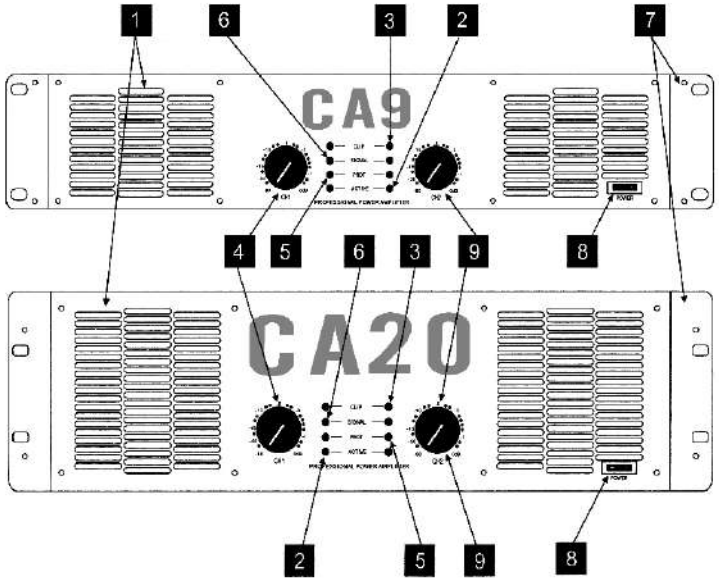
IMPORTANT PRECAUTIONS

1. Read all documentation before operating your equipment.Retain all documentation for further reference.
2. Mains voltage must be correct and the same as that printed on the rear of the unit . Damage caused by connection to improper AC voltage is not covered by any warranty.
3. Always operate the unit with the AC ground wite connected to the electrical system ground .Precautions should be taken so that the means of grounding of a piece of equipment is not defected.
4. Connecting amplifier outputs to oscilloscopes or other test equipment while the amplifer is in bridged mode may damage both the amplifier and test equipment.
5. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
6. Do not run the output of any amplifier channel back into another channel's input . Do not parallel or series connect an amplifier output with any other amplifier output.
7. In system setup,amplifier`s output power must be greater 50%-100% than the loaded loudspeaker`s rated power.
8. Make sure the signal correctly connect to the amplifier`s input channel at current input mode.
9. Please turn off the power swifch,when pull off the power cord and signal cable or select the input mode switch.
10. In typical use, Please set the volume to 0dB position.
11. Sometime, one signal to more than one amplifier, suggest use signal distributor.



IMPORTANT : Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CASERIES DESCRIPTION FRONT PANEL:



1. Air Exit
This part is the air exit. Don`t obstruct it.

2. " POWER " Indicator
This indicator lights when the power amplifier is switching on.
Keep pressing the power button for 2 seconds after electrified, amplifer turn on/off automatically.

3. " CLIP " Indicator
Any illumination of the clip indicates a state of over modulation (distortion at extremely high volumes). In this case, check the output signal of your mixer and turn down the input gain control. Please keep in mind that the power amplifier con not correct any distortion.

4. Channel 1 Volume Control
In stereo mode, this potentiometer allows the adjustment of the channel 1 input level. (left channel). In Bridge mode, this potentiometer allows the adjustment of the two channels at the same time.

5. " PROTECTION " Indicator
When this indicator lights, that means the power amplifier is in the protection mode. Switch off the device and find out the problem. This power amplifier is protected overheat, overload, short circuit,DC, softstart.

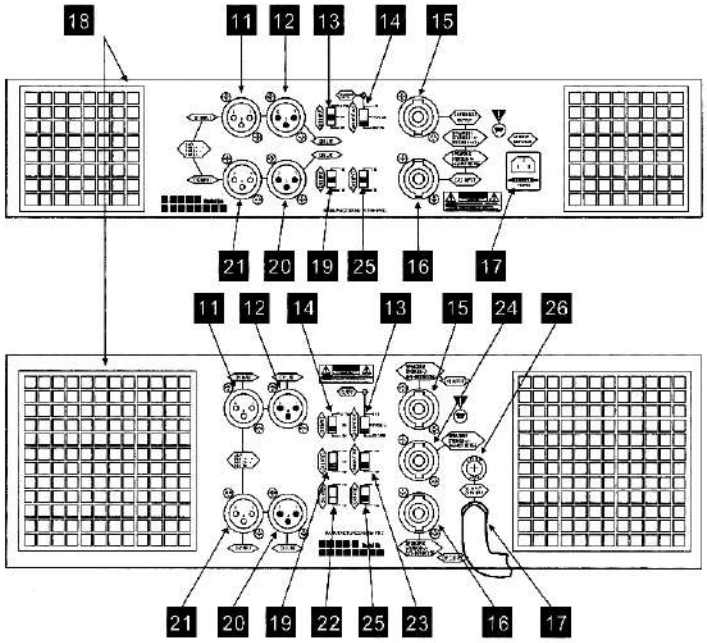
6. " SIGNAL " Indicator
The illumination of the LED only indicates a safe operation.

7. Handies
Those handles are used for easy transportation.

8. Power Switch
Use this switch to switch your power amplifier on.

9. Channel 2 Volume Control
In stereo mode, this potentiometer allows the adjustment of the channel 2 input level. (Right channel)
In bridge mode, this potentiometer is disabled.

CASERIES DESCRIPTION REAR PANEL:



11. Channel 1 XLR Input
This XLR input is a balanced input. Connect this input to the left output of your mixer.

12. Channel 1 Link Socket
This balanced socket is used to link another amplifier.

13. Input Sensitivity Selector
This selector allows to choose the input sensitivity:either 0.775V, 1.0V or 1.4V.

14. Operation Mode Selector
This switch is used to choose the operating mode of the power amplifier:
Mode stereo:2 inputs (channel 1 and 2) and 2 outputs are used.
Mode parallel: 1 input (channel 1) and 2 outputs are used.
Mode bridge: 1 input (channel 1) and 1 output are used.

15. Channel 1 Turn Lock Output
Connect this turn lock output to a speaker. The branching is +1, -1 (except in bridge mode where the branching is +1, +2 for CA2, 4,6&9).

16. Channel 2 Turn Lock Output
Connect this turn lock output to a speaker. The branching is+1, -1 .

17. AC Cord
Plug this cord into the power supply socket. (Before using the power amplifier, check if the power supply is 220V).

18. Air Entrance
This part is the air entrance. Don`t obstruct it.

19. High Pass Filter Selector
This switch is used to cut low frequency under 30Hz (infrasound).

20. Channel 2 Link Socket
This balanced socket is used to link another amplifier.

21. Channel 2 XLR Input
This XLR input is a balanced input. Connect this input to the right output of your mixer.

22. Limiter Selector
This switch is used to limit input level. This funotion can be used to avoid damage for your power amplifier if there is a malfunction in the input device (mixer, CD player,.....).

22. Crossover Selector (Only for CA12 & CA18)
Put the switch in the " ON " position when you want to use the power amplifier with one (or several) subwoofer speakers.

23 : Low Pass Filter Selector
This switch is used to cut high frequency above 150Hz

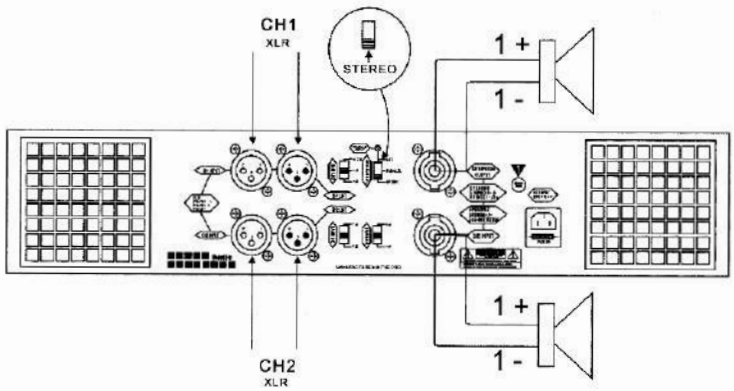
24. Bridge Turn Lock Output (Only for Ca12 & CA18)
This output is the bridge output in brdge mode (see connection later). The branching is +1,-1.

25. Grounding Selector
If you have hum or noise in your speaker, put the selectior in " ON " position.

26. Fuse
The fuse is used to protect your amplifier from different kinds of AC problems. If the power amplifier is " on " and nothing lights, please verify the fuse compartment. If fuse is broken, please read it and change with a new one of same size and value.

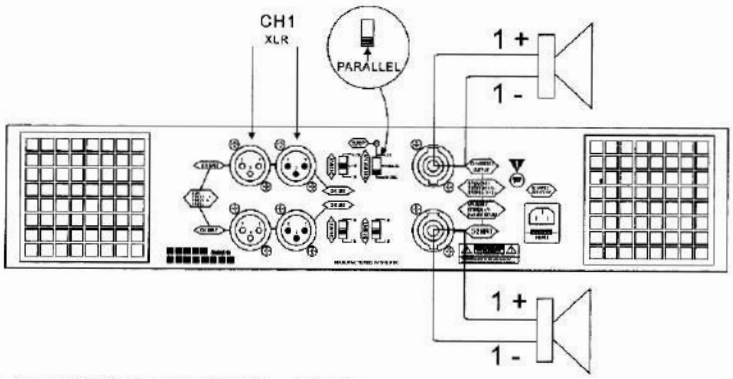
CONNECTING FOR CA2,CA4,CA6,CA9:

Stereo mode:



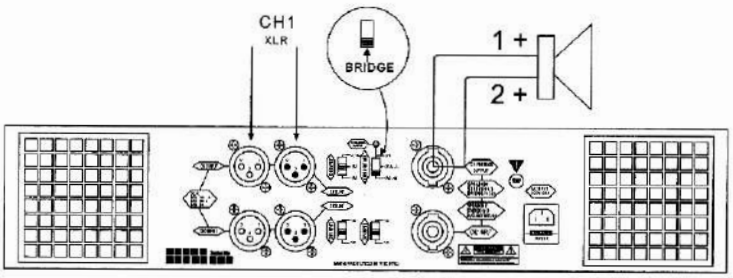
In this mode, connect the 2 inputs CH1 and CH2 to your mixer's outputs.
Put the selector on the stereo position.
Output volume can be adjusted by means of the two potentiometers.
Connect the 2 turn lock outputs to the 2 speakers.

Parallel mode:



In this mode, connect the input CH1 to your mixer's outputs.
Put the selector on the parallel position.
Output volume can be adjusted by means of the two potentiometers.
Connect the 2 turn lock outputs to the 2 speakers.

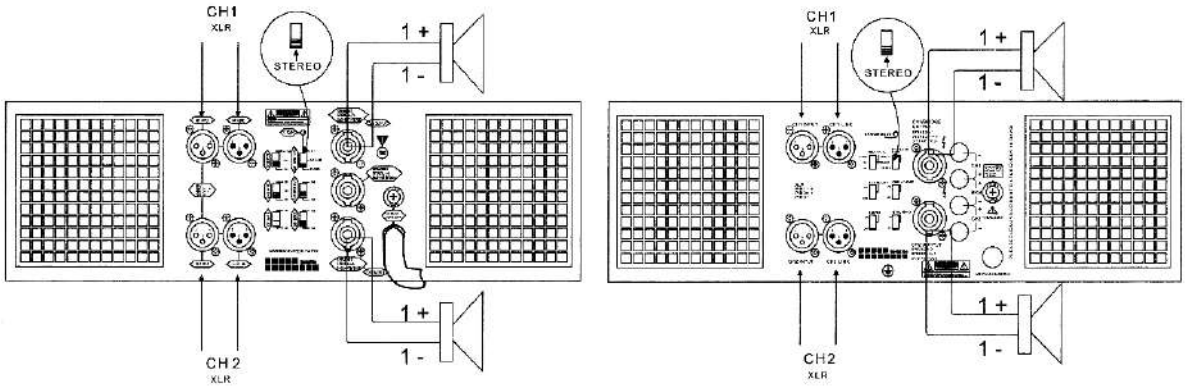
Bridge mode:



In this mode, connect the input CH1 to your mixer's outputs.
Put the selector on the bridge position.
Output volume can be adjusted with channel 1 potentiometer.
Connect the channel 1 turn lock output to the speaker.

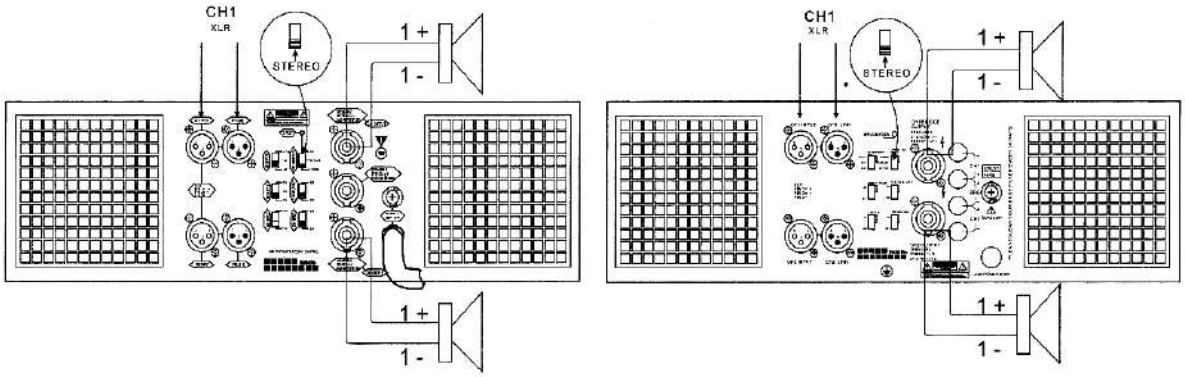
CONNECTING FOR CA12,CA18,CA20:

Stereo mode:



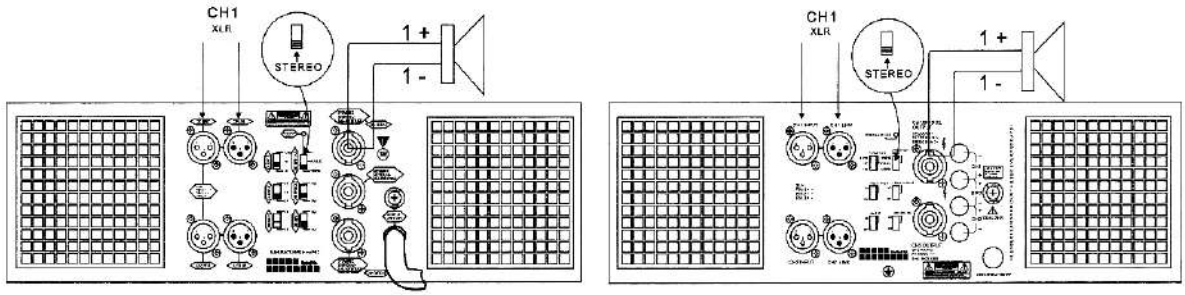
In this mode, connect the 2 inputs CH1 and CH2 to your mixer's outputs.
Put the selector on the stereo position.
Output volume can be adjusted by means of the two potentiometers.
Connect the 2 turn lock outputs to the 2 speakers.

Parallel mode:



In this mode, connect the input CH1 to your mixer's outputs.
Put the selector on the parallel position.
Outputs volume can be adjusted by means of the two potentiometers.
Connect the 2 turn lock outputs to the 2 speakers.

Bridge mode:



In this mode, connect the input CH1 to your mixer's outputs.
Put the selector on the bridge position.
Output volume can be adjusted with channel 1 potentiometer.
Connect the bridge turn lock output to the speaker.

SAFETY INSTRUCTIONS:

Read all safety instructions before operating amplifier.
Install equipment as follows:
-- Install in a flat place, not bending or curved.
-- Do not install near water and moisture.
-- Place power amplifier away from heat sources, such as radiators or other heat source.
Keep in mind the following when connecting amplifiers
-- Read the user manual before connecting the amplifier
-- Connect each connection of the amplifier perfectly.If not,it may cause hum,damage,electric shock in case of disconnection.
-- To prevent electric shocks, do not open top cover.
Connect the power cord with safety after check fo AC power.

SPECIFICATIONS:

Model	CA2	CA4	CA6	CA9	CA12	CA18	CA20	CA30	CA38
8ΩStereo power	300W	450W	650W	800W	800W	1200W	1350W	1500W	1800W
4ΩStereo power	450W	650W	800W	950W	1300W	1800W	2100W	2275W	2700W
8ΩBridge power	650W	900W	1100W	1400W	2600W	2700W	3000W	4400W	4000W
4ΩBridge power	800W	1000W	1200W	1400W	3800W	3600W	4200W	5000W	6000W
Response	20Hz-20KHz±0.3dB								
THD+N(20Hz-20KHz)	<0.03%@8ohm 1KHz								
S/N Ratio	>95dB					>93dB			
Damping Factor	>400					>300			
Input Impedance	20K ohm(Balance)/10K ohm(Unbalance)								
Output Circuitry	ClassH								
Input Sensitivity	0.775V/1V/1.4V								
Protect	Overheat short circuits,DC, limit and softstart, Output relay--Zero Current Switch, Intellctual Clip limiter.								
Height	2U					3U			
G WEIGHT KG	20	22	24	26	32	36	38	40	
(W×H×D)	590*575*150mm(2U)					662*592*220mm (3U)			

WARRANTY CONDITIONS

All products are warranted for a period of one year from all manufacturers defects.
The warranty begins when the product is sold to the end-user,and no more than 12 months after the production of the unit.
The warranty is void if their are any signs of tampering of the unit, unless authorized by an agent of in writing.
If by chance the unit were to be defective, at that point the client must pre-pay the shipment back to the warranty center with it' s original package.

The amplifiers have all protections but bad use can damaged the amplifier and is not covered by the warranty.

The amplifier have some mechanical parts that if over used abusively is not covered by the Limited Warranty.
For any further information or question regarding the amplifier please contact your distributor or place from which you purchased this product.