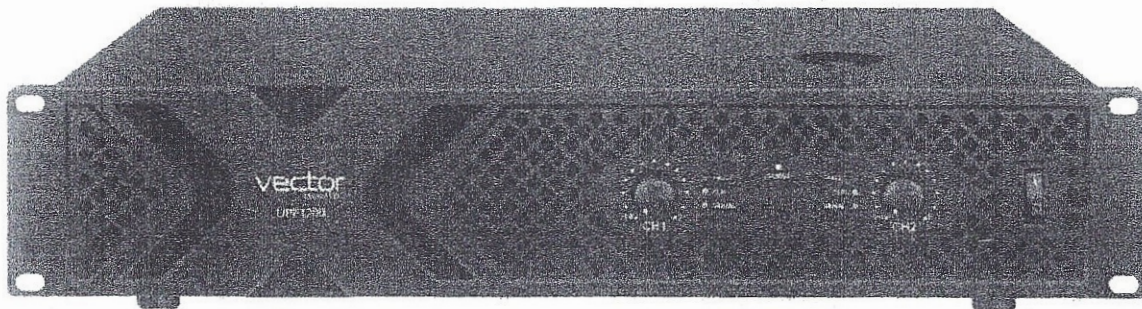


**vector**  
audio

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# Professional Power Amplifier Operation Manual



## Important Safety Instructions

1. Read these instructions.
2. Keep these instruction.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a 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 apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-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 is 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, 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. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operated normally, or has been dropped.
15. Use the mains plug to disconnect the apparatus from the mains.
16. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
17. WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.



18. DO NOT EXPOSE THIS EQUIPMENT TO DROPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.

19. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.



TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL

REMAIN READILY OPERABLE.

**WARNING: PAY ATTENTION TO A PROCEDURE, PRACTICE, CONDITION OR THE LIKE, IF NOT CORRECTLY PERFORMED OR ADHERED TO, COULD RESULT IN PERSONAL INJURY OR DEATH.**

**CAUTION: PAY ATTENTION TO PROCEDURE, PRACTICE, CONDITION OR THE LIKE, IF NOT CORRECTLY PERFORMED OR ADHERED TO, COULD RESULT IN DAMAGE OR DESTRUCTION TO PART OR ALL OF THE COMPONENT.**

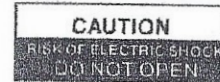
## WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.



This device is designed and evaluated under the condition of 2000 meters tall above sea level; and, it can be only used in locations below 2000 meters tall above sea level. Using the device above 2000 meters altitude would result in high safety risk.



The device is designed and evaluated under the condition of non-tropical climate; and, it can be only used in locations in non-tropical climate areas. Using the device in tropical climate areas would result in high safety risk.

## IMPORTANT

LS series amplifiers require class 2 output wiring.

## MAGNETIC FIELD

**CAUTION!** Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit, because this amplifier has a high power density, it has a strong magnetic field which can induce noise into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the rack and the preamplifier or other sensitive equipment at the top.

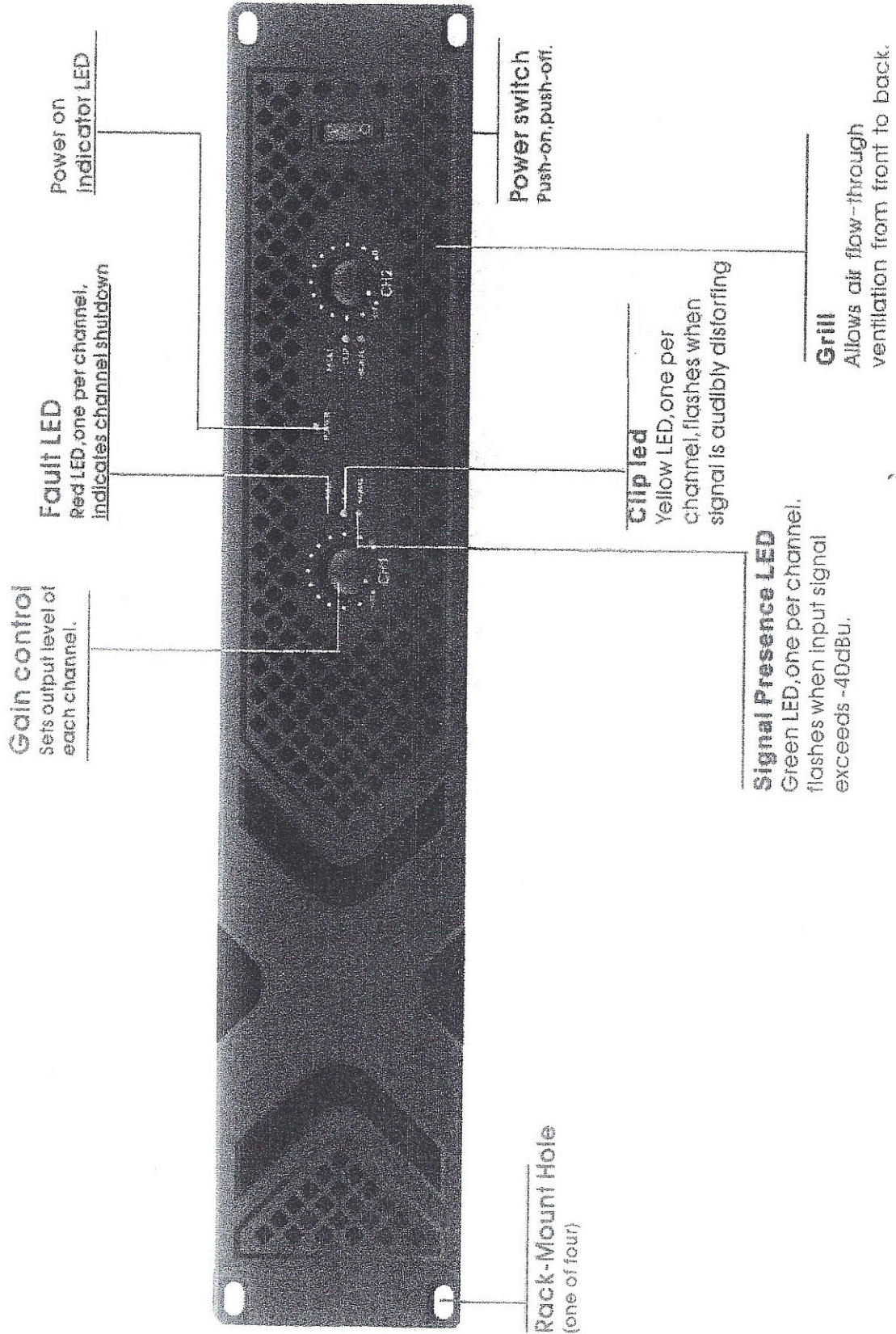
## FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAUTION: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications, however, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# Front Panel Features



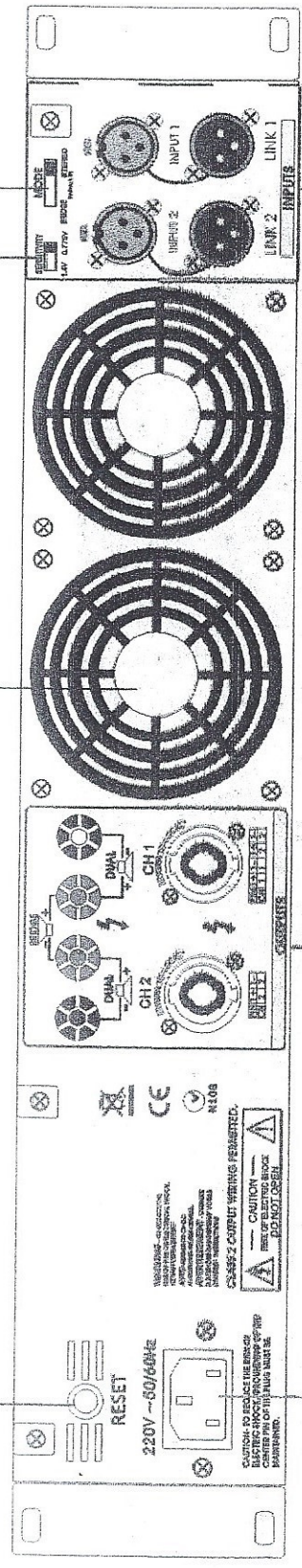
# Back panel features

**Mode switch**  
stereo(dual), parallel or bridge.

**Sensitivity Switch**  
1.4V or 0.775V input  
Sensitivity.

**Fans**  
Provide front to back  
forced air flow for

**Circuit breaker**  
Provides overload protection.



**Ac power  
Connector**

**Output Connectors**  
One Speakon® and one  
Binding Post per channel  
connect to loudspeakers.

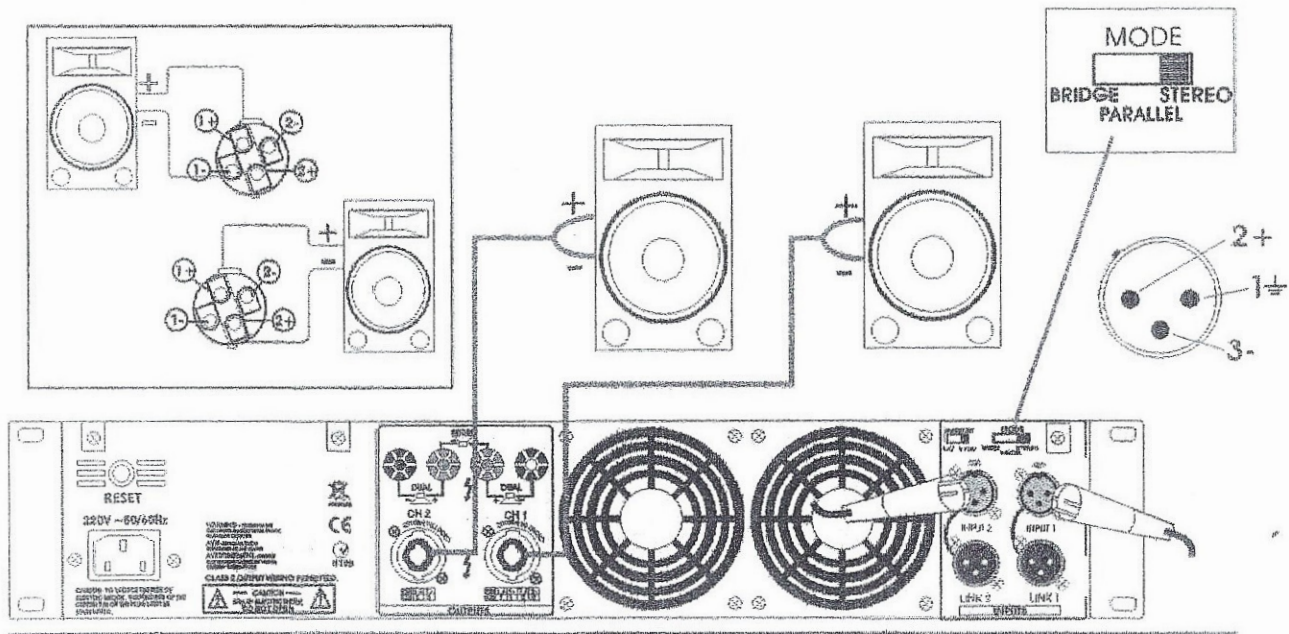
**Input connectors**

Cordset rating 10A, 250V  
Cable Coating Material: Environmental Protection PVC, copper core PBT

# Wiring

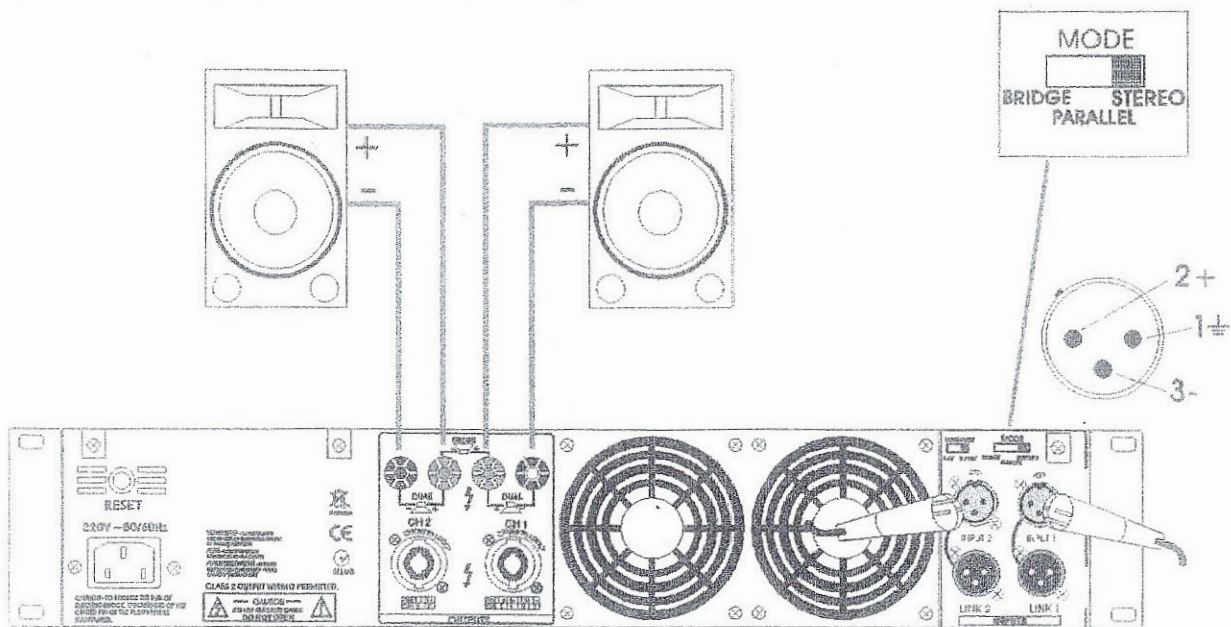
## Stereo (Dual) Wiring Using The Speakon Connectors

1. See Figure 3. On the back panel, set the output mode switch to STEREO.
2. wire the speakers to the speakon® connectors as shown.



## Stereo (Dual) Wiring Using The Binding Post Connectors

1. See Figure 4. On the back panel, set the Output Mode Switch to STEREO.
2. wire the speakers to the binding post connectors as shown.

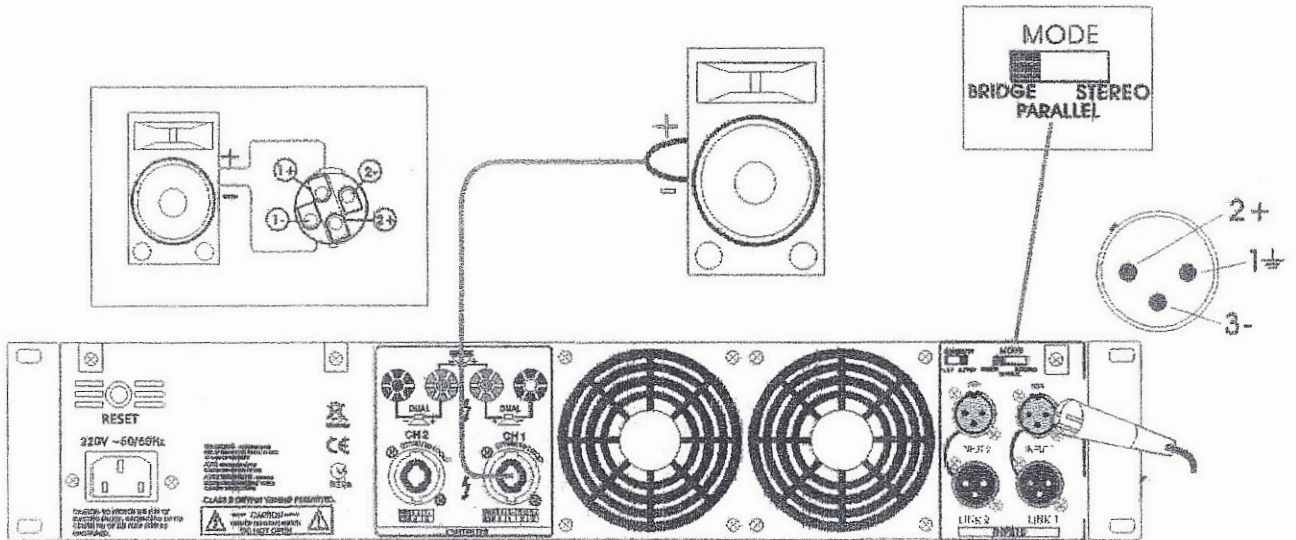


## Setup

### Bridge-Mono Wiring Using the Speakon® Connectors

Bridge-mono mode doubles the output power of the amplifier.

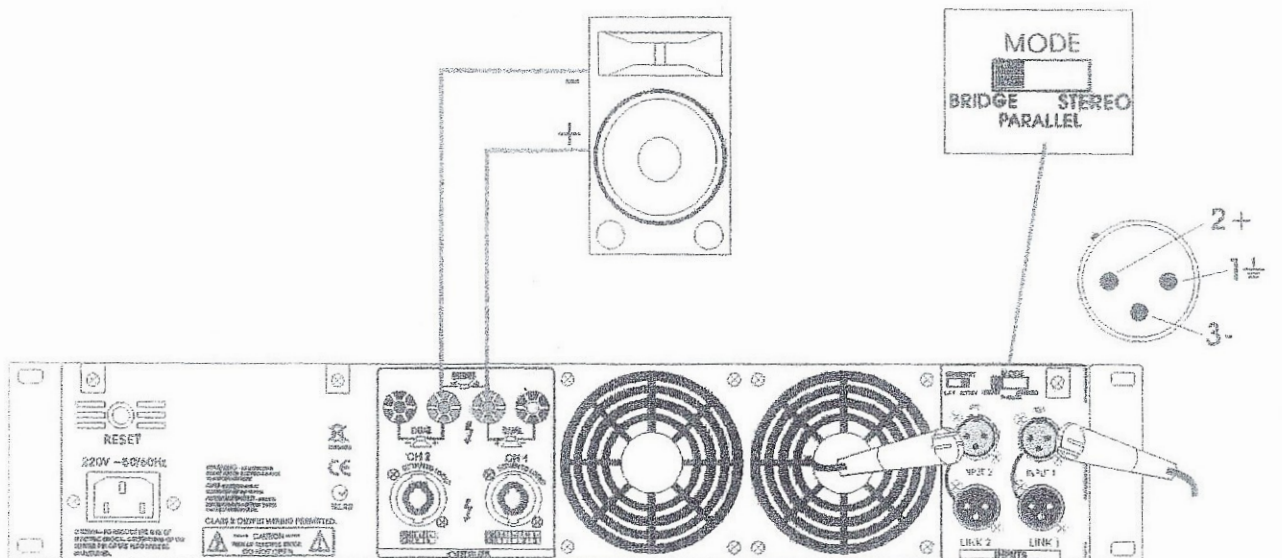
1. See figure 5. On the back panel, set the Output Mode switch to BRIDGE.
2. Wire the speaker to the speakon connector as shown.
3. Only the Channel 1 Gain Control works in Bridge-mono mode.



### Bridge-Mono Wiring Using the Binding Post Connectors

Bridge-mono mode doubles the output power of the amplifier.

1. See figure 5. On the back panel, set the Output mode Switch to BRIDGE.
2. Wire the speaker to the binding post connector as shown.
3. Only the Channel 1 Gain Control works in Bridge-mono mode.

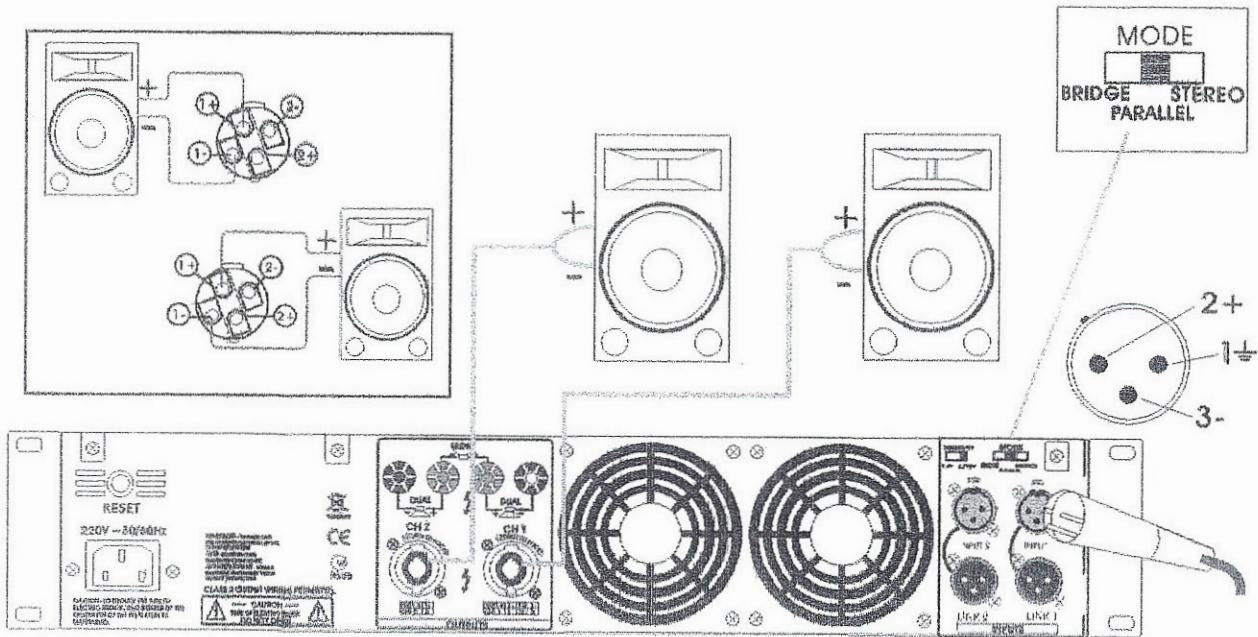


# Wiring

## Parallel Wiring Using the Speakon® Connectors

With this wiring, a signal sent to one of the input connectors is paralleled to both channels so that it is reproduced by both speakers.

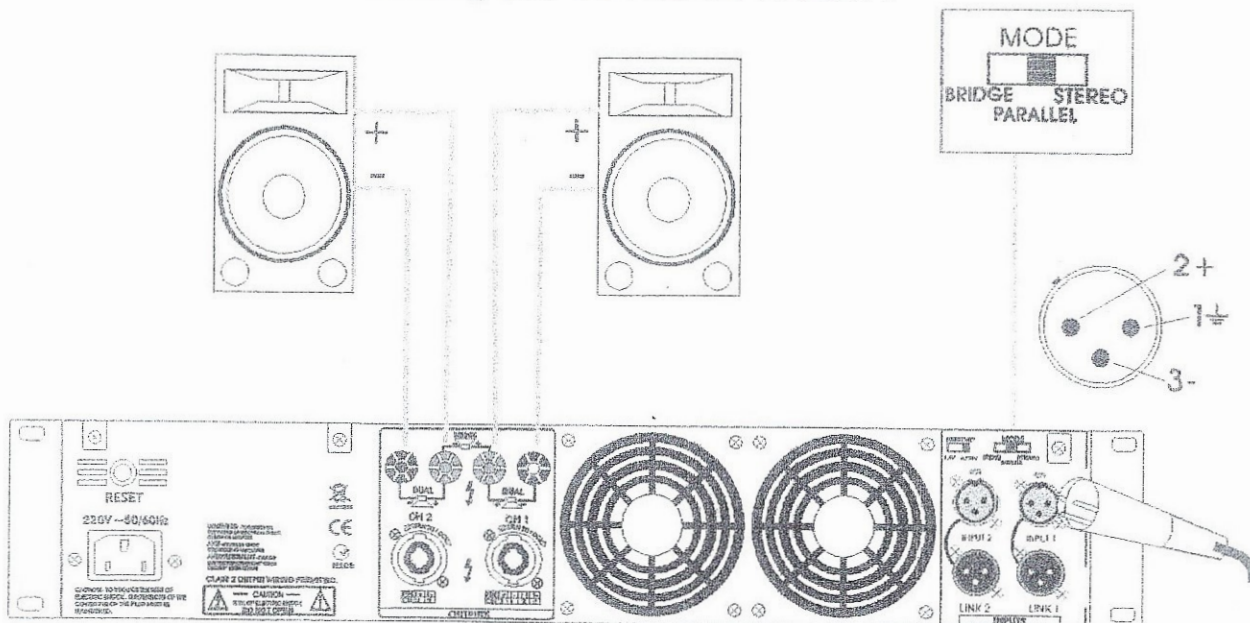
1. See Figure 7. On the back panel, set the Output Mode Switch to PARALLEL.
2. Wire the speakers to the Speakon® connectors as shown.



## Parallel Wiring Using the Binding Post Connectors

With this wiring, a signal sent to one of the input connectors is paralleled to both channels so that it is reproduced by both speakers.

1. See Figure 8. On the back panel, set the Output Mode Switch to PARALLEL.
2. Wire the speakers to the binding post connectors as shown.



# Specifications

Guaranteed Minimum Power	DFP-1200	DFP-1800	DFP-2300	DFP-2700	DFP-3000
1KHz(EIA) with 0.5% THD					
4 Ω STEREO (per channel)	600W	900W	1200W	1350W	1500W
8 Ω STEREO (per channel)	400W	600W	800W	1000W	1200W
8 Ω bridge mono	1200W	1800W	2300W	2700W	3000W
<b>Performance</b>					
Frequency Response (at 1 Watt)	20Hz-20KHz, +0/-1dB				
Total harmonic Distortion (THD)	<0.5%, 20Hz-20KHz				
Intermodulation Distortion (IMD) 60 Hz and 7 kHz at 4:1, from full rated output to -30dB	≤0.35%				
Slew Rate	>10V/μs				
Voltage Gain	31dB	33dB	34dB	36dB	37dB
Damping Factor(8 Ω), 10Hz-400Hz	>200				
Signal-to noise ratio (below rated power, 20 Hz to 20kHz, A-weighted)	>100dB				
Crosstalk (below rated power) At 1 kHz At 20 kHz	-75dB -59dB				
Input sensitivity for full rated power at 8ohms	0.775V or 1.4V				
Input Impedance(nominal) Balanced Unbalanced	20K ohms 10K ohms				
<b>Connectors, Controls and Indicators</b>					
Input Connectors	One balanced XLR and one unbalanced RCA per channel				
Output connectors(speaker connectors)	4-POLE speaker and one pair binding post per channel				
Front Panel Controls	Power on/off switch; one gain control per channel				
Rear Panel Controls	Output mode switch: stereo(dual), parallel or bridge input sensitivity switch: 0.775v or 1.4v				
Power Indicator	One blue LED				
Signal Indicator	One green LED per channel				
Clip(peak) Indicator	One yellow LED per channel				
Fault indicator	One red LED per channel				
<b>Construction</b>					
Protection	Protection against short circuits, no-load, on/off muting, RF interference, unstable input or mismatched loads				
Ventilation	Flow-through ventilation from front to back				
Cooling	Internal heat sinks with forced air. Fan cooled, speed regulated, thermal protection				
Dimensions (WxHxD)	19" x 3.5" x 12.4" (482mmx89mmx315mm)			19" x 3.5" x 14.4" (482x89x366mm)	
Net Weight	12.7 Kg	13.5 Kg	14.5 Kg	19.5 Kg	20.6Kg
Shipping Weight	14.7 Kg	15.5 Kg	16.5 Kg	21.5Kg	22.6Kg