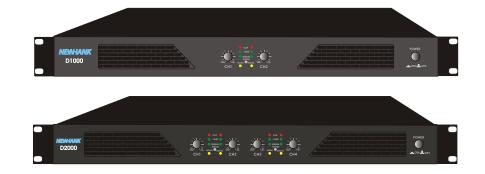
Specifications

Guaranteed Minimum Power	D1000	D2000
1KHz(EIA) with 0.5% THD 4 Ω STEREO (per channel)	2x500W	4x500W
8 Ω STEREO (per channel)	2x300W	4x300W
8Ω bridge mono	1000W	2x1000W
Channel	2 channel	4 channel
Performance		
Frequency Response (at 1 Watt)	20Hz-20KHz,+0/-1dB	
Total harmonic Distortion (THD)	<0.2%	
Power voltage	220-240V~50/60Hz	
Power consumption	680W	1360W
Power Connector	Standard IEC connector	
Output Grade (Technology Type)	Class D	
Voltage Gain	40dB	
Damping Factor	>300 (8 \Omega),10Hz-400Hz	
S/N Ratio (20Hz-20Khz,4 Ohms)	>100dB	
Crosstalk	-65dB	
Input sensitivity	0.775V	
Input impedance(nominal) Balanced Unbalanced	10K ohms 20K ohms	
Connectors,Controls and Inc	dicators	
Input Connectors	XLR socket (female)	
Output connectors	SPEAKON	
Front Panel Controls	Power on/off switch and Volume Control	
Rear Panel Controls	Output mode switch for mono, stereo or bridge selectio	
LED Indicators	Three LED lights for every channel. Clip/-10dB, signal and Mono/bridge/Status lights in front panel.	
Cooling system	Cooling fans with variable speed	
Construction		
Protection	Protection against short circuit, direct output current, over load, low voltage and over-heat	
Ventilation	Flow-through ventilation from front to back	
Dimensions (WxHxD)	483x44x350mm	483x44x350mm
NetWeight	4.95kg	6.30kg
Shipping Weight	6.30kg	7.65kg
Accessories	Operation manual 1pc,power cord plug1pc	

NEWHANK

Digital Power Amplifier D Series Operation Manual

Models: D1000,D2000

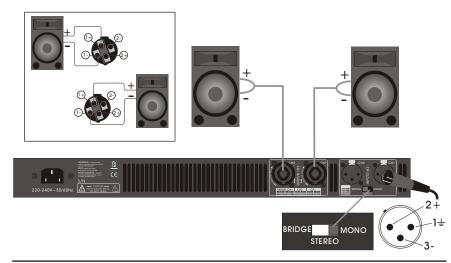


Mono Wiring D1000

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 the following. On the back panel, set the Output Mode Switch to MONO.
- 2. Wire the speakers to the Speakor[®] connectors as shown.



Mono Wiring D2000

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 the following figure. On the backpanel, set the Output Mode Switch to MONO.
- 2. Wire the speakers to the Speakor[®] connectors as shown.



NEWHANK

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.
- Clean only with a dry cloth.
- 7. Do not blockany ventilation opening. Installin accordance with the manufacturer`s instructions.
- 8. Do not install near any heat source such as radiator .heatregister. stove, or other apparatus(includingamplifier) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plughas two blades withone wider than theother. A grounding-type plug hastwo blades and athird grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does notft into your socket.consult an electrician for replacement of the correctsocket.
- 10. Protect the power cordfrom being walled onpinched, particularly at the plug, conveniencereceptacle, and the pointwhere 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 duringlightning storms or whenunused for

- long periods of time.
- 14.Refer all servicing toqualifed service personnel. Servicingis required when the apparatus hasbeen damaged in anyway, such aspowersupply cord or plugis damaged ,liquid hasbeen spilled or objects have fallen into the apparatus, the apparatus hasbeen exposed to rain or moisture, does notoperate normally, orhas been dropped.

15.Use the mains plugto disconnect the apparatus from the mains.

16.WARNING: TO REDUCE THERISK OF FIRE ORELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAINOR MOISTURE.

17.WARING: THIS APPLIANCE SHALL BECONNECTED TO A MAINS SOCKET OUTLET WITH APROTECTIVE EARTHING CONNECTION



18.D0 NOT EXPOSE THISEQUIPMENT TO DRPPING 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 SUPPLYCORD SHALL REMAIN READILY OPERABLE.



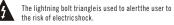
TO PREVENT ELECTRIC SHOCKDO NOT REMOVE TOP **OR BOTTOM COVERS. NO USERSERVICEABLE PARTS** INSIDE. REFER SERVICING TOQUALIFIED SERVICE PERSONNEL.

TO COMPLETELY DISCONNECT THISEQUIPMENT FROM THE AC MAINS, DISCONNECTTHE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE

MAINS PLUG OF THE POWERSUPPLY CORD SHALL REMAIN READILY OPERABLE.

WARNING: PAY ATTENTIONTO A PROCEDURE, PRACTICE, CONDI-TION OR THE LIKE. IFNOT CORRECTLY PERFORMEDOR ADHERED TO, COULD RESULTIN PERSONAL INJURY OR DEATH. CAUTION: PAY ATTENTION TO PROCEDURE.PRACTICE CONDITION OR THE LIKE, IFNOT CORRECTLY PERFORMEDOR ADHERED TO, COULD RESULTIN DAMAGE OR DESTRUCTION TO PART OR ALL OFTHE COMPONENT.









This device is designed andevaluated under the con 2000m dition of 2000 meterstall above sea lever: and.itcan be only used inlocations below 2000 meterstall above sea level. Using the device above 2000 metersal titude would result in highsafety risk.

The device is designed and evaluated under the condi tion of non-tropical climate; and, it canbe only used in locations in non-tropical climate areas. Using the device in tropical climateareas would result inhigh safety risk

IMPORTANT

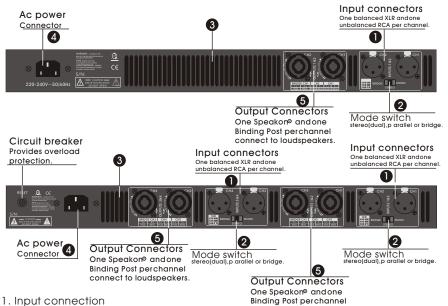
XLi series amplifers requireclass 2 output wiring.

MAGNETIC FIELD

CAUTION! Do not locate sensitive high-gainequipment such as preamplifers or tape decks directlyabove or belo-w the unit.be cause this amplifer has ahigh power density, it has a strong mag netic feld which can inducehum into unshielded devices thatare located nearby, the feldis strongest just above andbelow the unit.

If an equipment rack isused, we recommend locating the amplifer(s) in the bottom of the rack and the rackand the preamplifer or other sensitive equipment atthe top.

Page 9



Rear Panel Introduction

It is a balanced 3 core XLR female socket.

2. Status selection switch

Push the switch to the position wanted. It is MONO mode at the left, STEREO in the middle and BRIDGE at the right.

connect to loudspeakers.

A) STEREO mode

STEREO is the most commonly used mode, Each channel will keep independent when it is at stereo mode. The volume control in front panel will work for relevant channel.

B) MONO mode

It is only the signal from CH 1 will be used under the MONO mode. The signals from all the output ends are the same and the volume control knobs will control the volume from relevant channels.

C) BRIDGE mode

It is only the signal from CH 1 will be used under this mode. The signals from the output ends will be the same and the phase will be contrast. All the output of the amplifier will be gathered to a output end. Since the amplifier is used as a mono equipment under the BRIDGE mode, the volume will be controlled by knob CH 1. The knob at CH 2 does not work at this mode,

Please note, any end of the output cord can not be grounded under the BRIDGE mode because two ends of the cord are output. It is allowed the minimum impedance to betwice of the one under the normal stereo or mono mode.

3. Cool AirVent

It is the vent for cool air to flow into the amplifier. Pls do not block it with any stuffor place any thing in the front of the vent when the amplifier is at working status.

4. Alternating Input socket

o be connected with suitable alternating electric power via the power cord.

Protection Functions

Digital power amplifier D series have full protection function against short circuit, direction current, over-load, over-heat and lower voltage. The protection will help to prevent possible damage to the equipment under the extreme situation.

1. Protection against short circuit

The protection circuit of the amplifier will monitor the current output situation at any time in operation. When short circuit happens or when the amplifier connects to the load with lower impedance, this protection function will start to work. The output of the amplifier will close and the protection circuit will detect the situation every few seconds automatically. When the short circuit or over-current disappear, the amplifier will resume to normal work situation.

The protection to very channel will work independently. When the amplifier is under STEREO mode or MONO mode, if short circuit happens at any one of the channels, this channel will be in protected situation, but the other channels will still work normally.

When the amplifier is under BRIDGE mode, every two channels of the amplifier will be connected to be one channel. So only one channel of two channel will be found output short circuit (including grounded short circuit) or over-current. Two channel will be in shortcircuit protection status.

NOTE :

This amplifier is with full short-circuit protection. But long lasting short-circuit should be avoided by effort because long time short-circuit may cause over-heat to inside components of the amplifier and affect the using life of the amplifier.

2. Protection against direction current and secondary audio

When the amplifier is detected to find direct voltage or large range of secondary audio(lower than 20Hz) signals at the output end, the amplifier will be in the protection status. It will prevent damage to the speaker systems. At the same time, the STATUS indicator in front of the panel will turn from green to orange.

Content Index

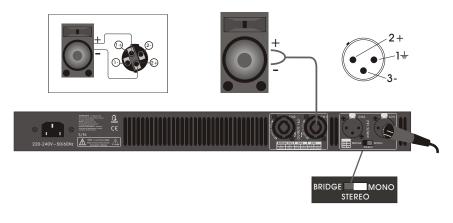
1. Manual Covercover page
2.Content Index page 1
3. Important Safety Instructions page 2
4. Product Featurespage 3
5. Protection Features of D Series page 4-5
6. Front Panel Introduction page 6
7. Rear Panel Introduction page 7
8. Wiring Instructionspage 8-10

9. Specifications of D Series ----- page11

Bridge Wiring D1000 Bridge-Mono Wiring Using the Speakon® Connectors

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

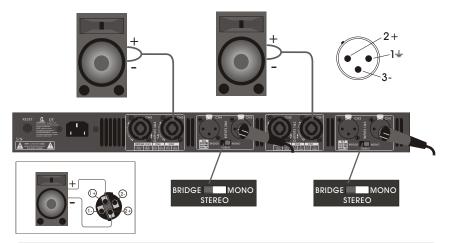
- 1. See the following. On the back panel, set the Output Mode switch to BRIDGE.
- 2. Wire the speaker to the speakon connector as shown.
- 3. Only the Channel 1 Gain Control works in Bridge-mono mode.



Bridge Wiring D2000 Bridge-Mono Wiring Using the Speakon[®] Connectors

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

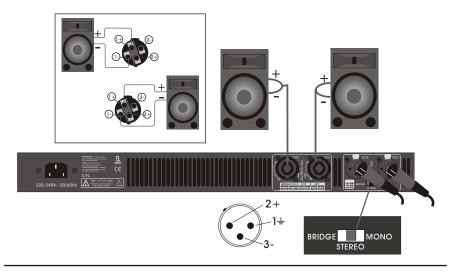
- 1. See the following figure. On the back panel, set the Output Mode switch to BRIDGE.
- 2. Wire the speaker to the speakon connector as shown.
- 3. Only the Channel 1 Gain Control works in Bridge-mono mode.



Stereo(Dual) Wiring D1000

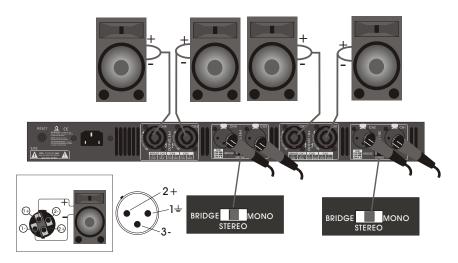
NEWHANK

- 1. See the following figure. On the backpanel, set the Output Mode Switch to STEREO.
- 2. Wire the speakers to the Speakon connectors as shown.



Stereo (Dual) Wiring D2000

- 1. See the following figure. On the backpanel, set the Output Mode Switch to STEREO.
- 2. Wire the speakers to the Speakon connectors as shown.



PRODUCT FEATURES

D series are the Class-D digital power amplifiers that are entirely designed by the manufacturer specially for up-rising demand to thin and light amplifier from the users. D series will bring you both satisfied sound effect and long-lasting performance.

The main features are as the following:

- Unique and elegant enclosure and front panel design.
- Carefully selected high quality components.
- Compact structure with only 1 unit height.
- Very light weight. Easy to move and install.
- Class D toplogy integrated with switch power supply design.
- Powerful output and high efficiency
- Low electricity consumption
- Accurate gain control, switch on/off, signal, clipping and protection LED light in front panel
- Fully automatic protection circuit at every channel, including protection against direct current, over-heat, over-load and amplitude limit.
- Nice and high efficient cooling system.
- XLR balance input and professional SPEAKON output
- Momo, Stereo or bridge mode selection pull switch is set on back panel.

Page 3

3. Starting delay and mute

There is a soft start procedure inside the amplifier after turn the power switch to ON position. During this time, the amplifier will be in protection status. The STATUS light will turn to orange color. The amplifier will turn to normal work status after about 4 seconds and the STATUS light will turn from orange to green. All the other indicator lights will lighten up to show the live mode.

When turn the power switch to OFF position, the amplifier will be in shut off status. The light STATUS will turn from green to orange and turn off finally.

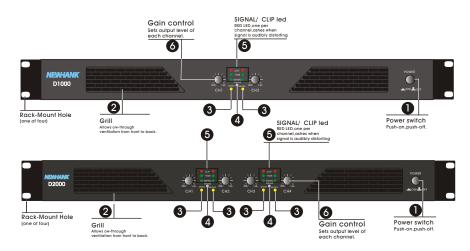
4. Protection against over-heat

When the temperature of the main cooling system of the amplifier is under 50 centi-degree, the cooling fan will run at very low speed. When it is between 50 and 70 centidegree, the cooling fan will run from slow speed via stepless speed change to full speed. When the temperature of the main cooling system reaches 90 centi-degree, the STATUS light will start to flash green and orange alternatively, which warns the user high temperature of the cooling system and to lower down the output intensity.

NOTE

When the protection status happens at starting of the amplifier, it shows there maybe serious damage inside the amplifier. PIs shut off the power and take off the power cord. Then send the amplifier to the professional expert for maintenance.

Front Panel Introduction



1. PowerOn/Off Switch

PLS push downON to turn on the power of the amplifier, push downOFF to turn off. 2. Air Vent

It is the vent for the heated air to flow through from inside of the amplifier. Pls do not put any stuffinside or in the front of the vent to block the air flow.

LED Indicators

The user canknow the working status of every channel with these LED indication lights. The LED lights includes three kinds of indicator as the following:

3. Working mode indicators MONO and BRIDGE

When the mode selection switch in the rear panelis turned to BRIDGE or MONO, the relevant LED light in front panel will belighten up at the same time. When it is at default working mode STEREO, these indicator lights will not shine.

4. Working status indicator STATUS

When the power to the amplifier is turned on, the light STATUS will be lighten up. When the amplifier is at normal working status, the LED light STATUS will be lighten up in green color. When the amplifier is under protection and mute status, it will flash in RED color.

5. Signal indicators SIGNAL , CLIP and -10dB

Even very small output can make SIGNAL to lighten up, it shows relevant channel is at work. When the light-10dB lightens up, it shows the output level is -10dB under the rated value. When CLIP lightens up, it shows the output level is higher than the rated value and the amplifier is at protection status.

6. Volume Control

The Volume Control knob is used to adjust the volume. When it is turned at clockwise direction, the volume will be increased. Wen it is turned at anti-clockwise direction, the volume will be decrease.

As to the 2 channel amplifier, when it is at STEREO mode or MONO mode, turn the volume control knobs at CH1 and CH2 to reach the wanted volume level. But when it is at BRIDGE mode, turn only the knobs at Ch1 to get the volume wanted. The knob at CH2 does not work under BRIDGE mode.