

BLACK POWER SERIES



D10K D16K AMPLIFIER OWNER'S MANUAL



D10K / D16K AMPLIFIERS

IMPORTANT NOTE

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

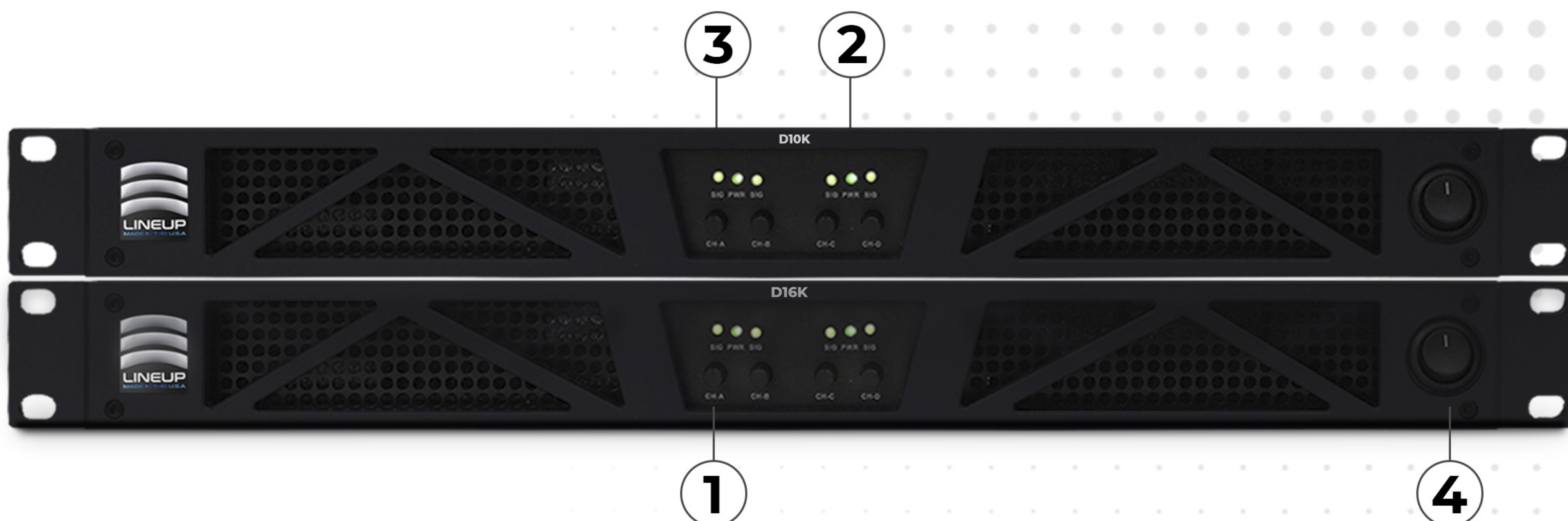
ATTENTION: This unit must be protected from moisture because of the risk of fire and the possibility of electric shocks.

1. Make sure that you have the correct mains voltage. Only operate the unit at the mains voltage marked on the rear panel.
2. Make sure that nothing, especially metal objects are inserted into the device. This could result in electric shock or malfunction.
3. If the unit is subjected to extreme fluctuations of temperature e.g. On being transported from outside into a heated room, condensation can form. This unit should not be used until it has reached room temperature.
4. In the event of water or any other fluid being accidentally spilled on the unit, switch the unit off immediately and send it to a qualified service center 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 cause it to ignite suddenly.
7. The machine uses a single power switch. Please cut off the power before service.
8. Please do not place anything with liquid above the amp to avoid leakage.

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FRONT PANEL FEATURES

THE FRONT PANEL LED AREA INCLUDES THE FOLLOWING INDICATORS PER CHANNEL:



1 VOLUME CONTROL

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

2 LED SIGNAL

Green LED: The input signal is greater than "-32dB"

Yellow LED: The output signal is distorted by more than 1%, or the power is compressed

Red LED: Protection mode. Please turn down the unit

3 LED POWER

Green LED: Power switch is turned on

Yellow LED: The temperature limiter is on

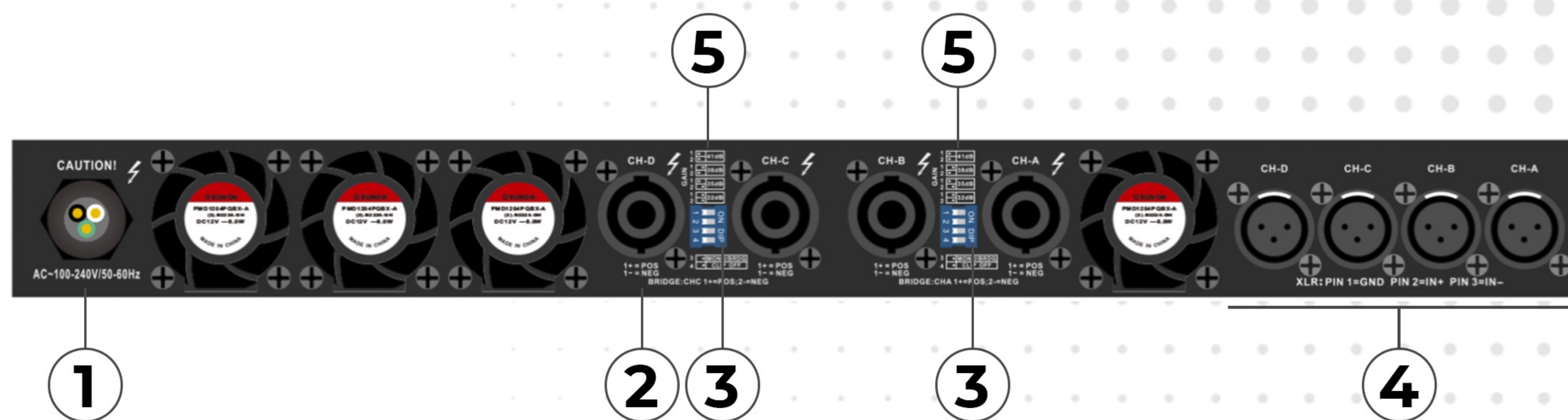
4 POWER SWITCH

Turn the unit power on or off.

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REAR PANEL FEATURES

THE REAR PANEL AREA INCLUDES THE FOLLOWING



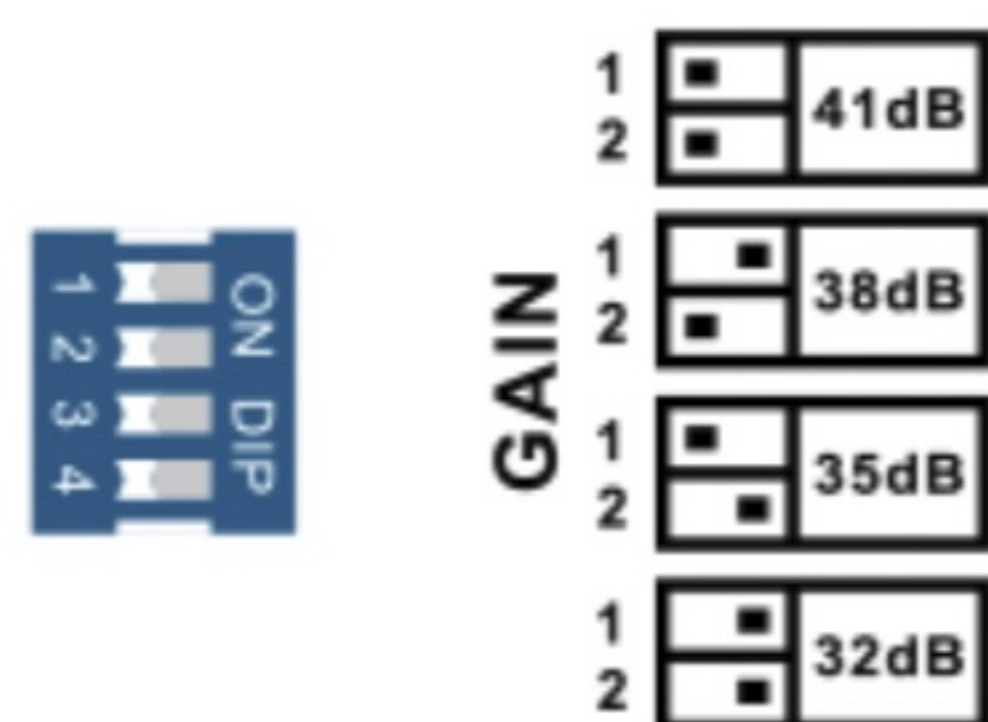
1 POWER SUPPLY INPUT

D16K: 3x2.5mm² Power cord D10K: 3x1.5mm² Power cord

2 SPEAKON

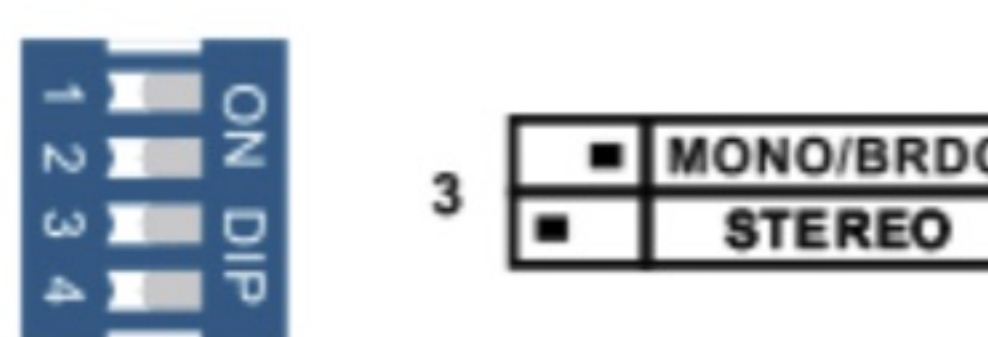
Four core SPEAKON speaker socket: When the amplifier is in Stereo mode, CHA\CHB will connect through this socket, the method is below: 1+, 1-.

3 DIP SWITCHES



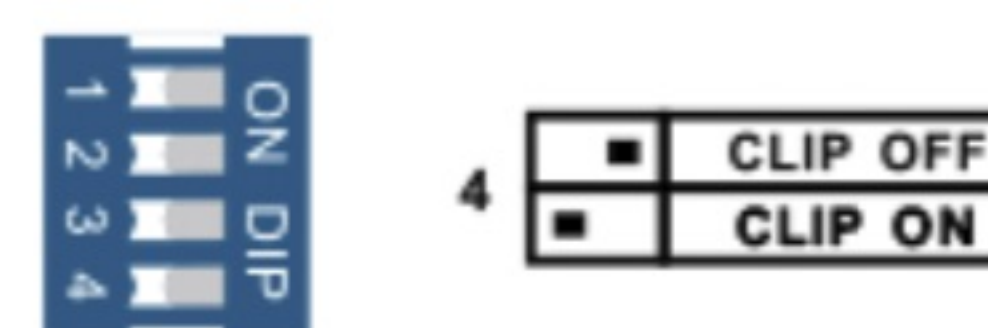
GAIN SWITCH

Set to 41dB, the amplifier voltage gain is 41dB; Set to 38dB, the amplifier voltage gain is 38dB; and so on.



MODE SWITCH

STEREO: Each channel is independent. CHA input signal output from CHA; CHB input signal output from CHB; and so on.
MONO/BRDG: CHA input signal output from CHA and CHB; CHC input signal output from CHC and CHD.



CLIP SWITCH

Set to ON, the clipping limiter is on; Set to OFF, the clipping limiter is off.

4 SIGNAL INPUT

Female XLR: Balanced audio input plug

5 GAIN AND SENSITIVITY

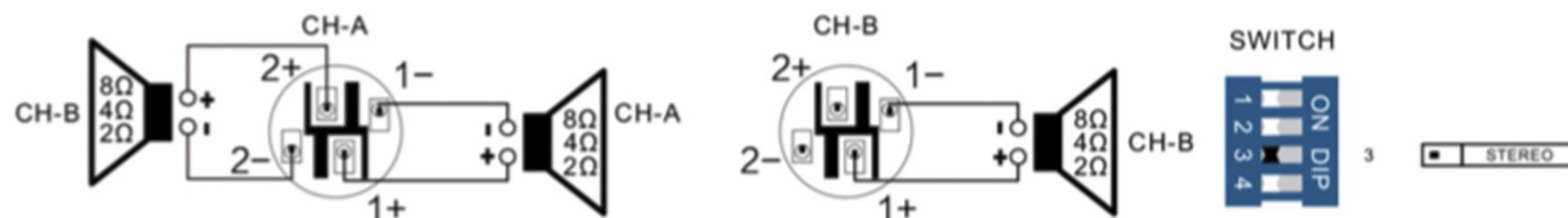
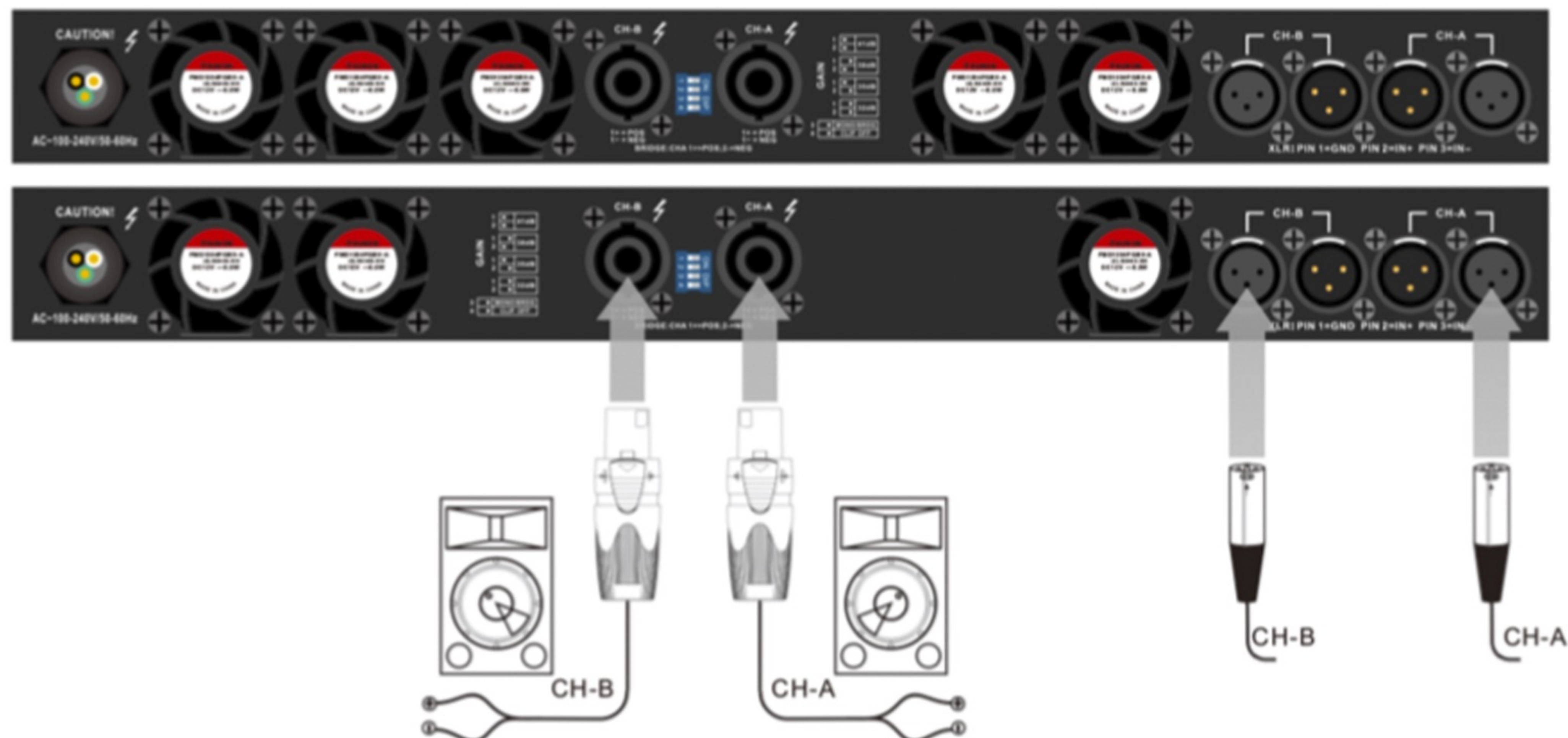
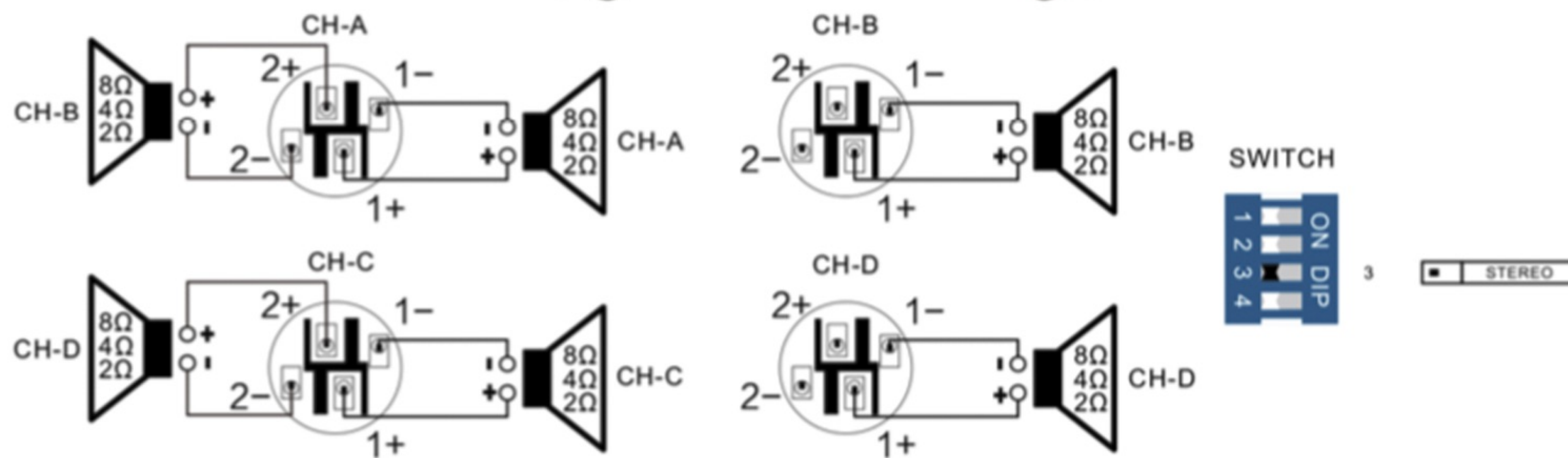
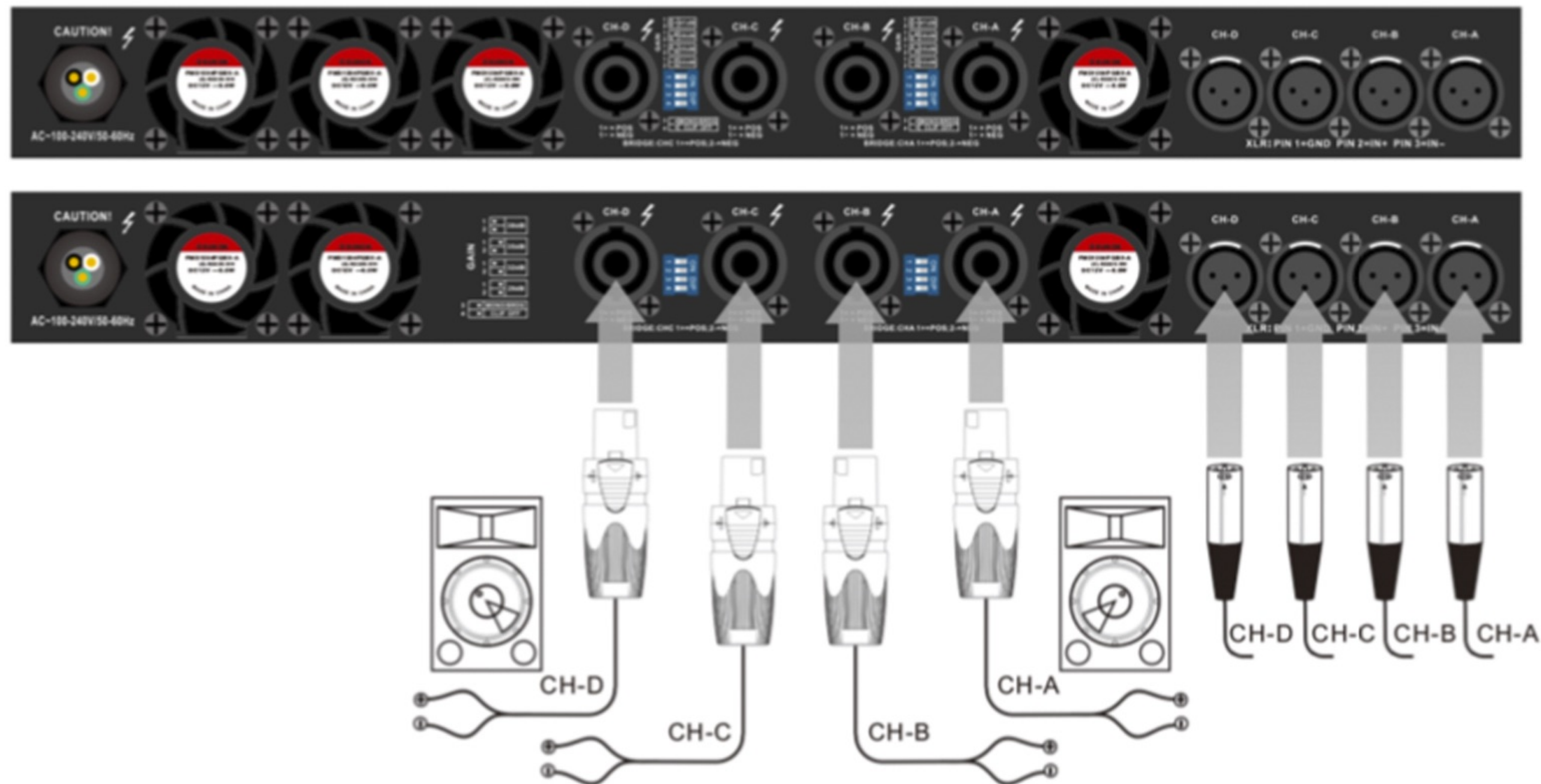
The user can set the power amplifier's sensitivity through the switch on the back panel, so as to match with the third party devices. 29dB, 32dB, 35dB, 38dB, 41dB are selectable. Input signal: 1kHz sine wave, Amplitude value is RMS.

GAIN (dB)	D16K	D10K
29	-	3.17v
32	3.18v	2.25v
35	2.25v	1.59v
38	1.59v	1.13v
41	1.13v	-

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AUDIO INPUT AND OUTPUT CONNECTIONS

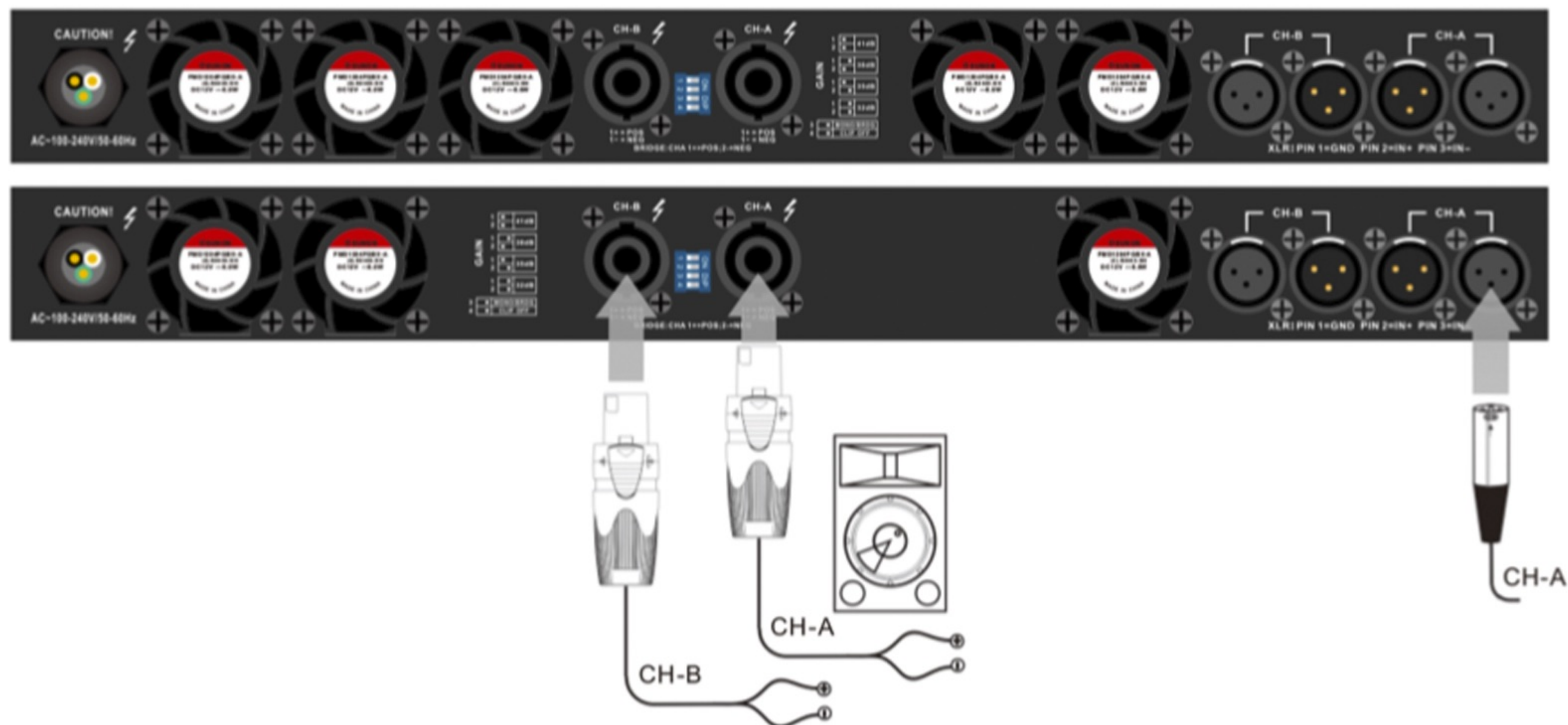
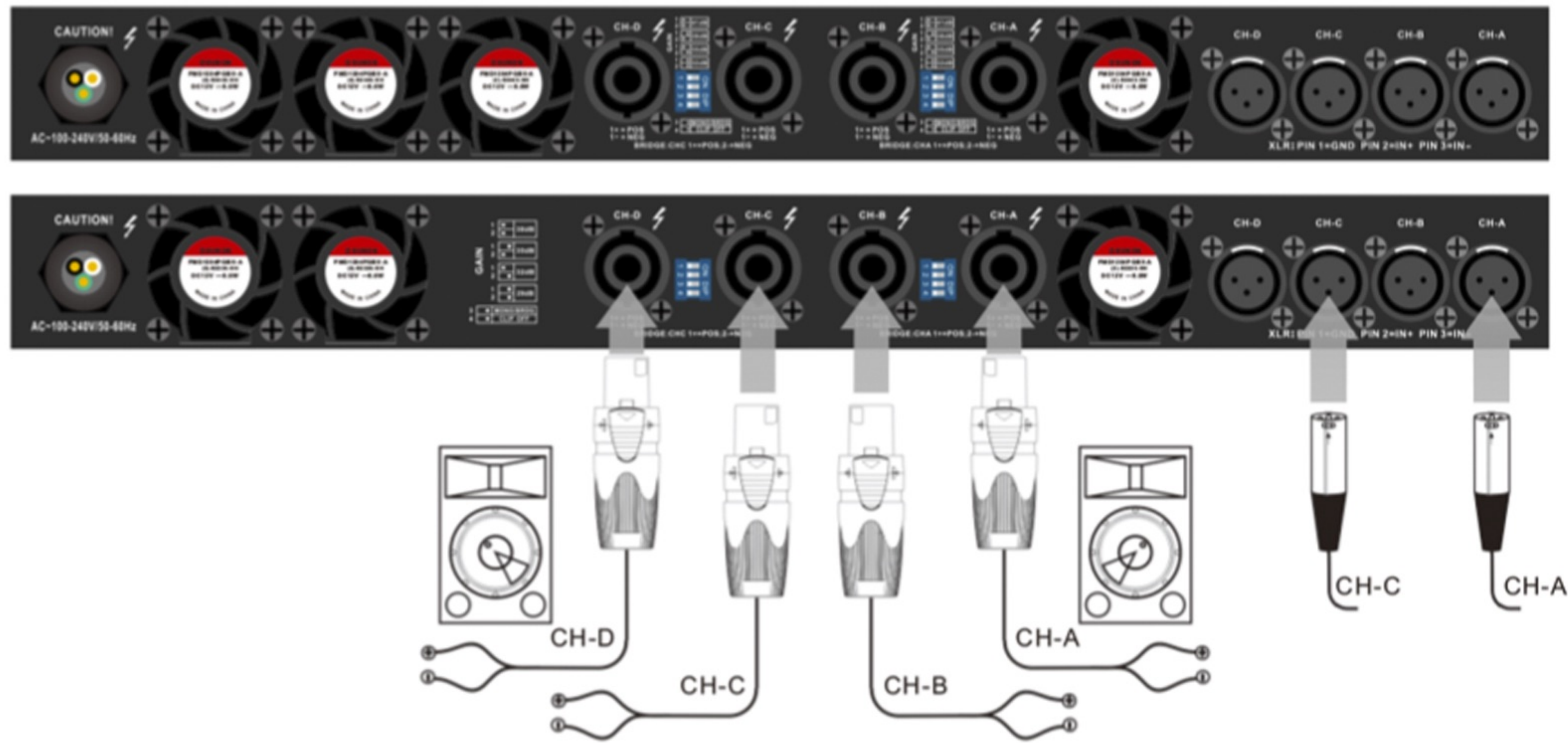
STEREO MODE



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AUDIO INPUT AND OUTPUT CONNECTIONS

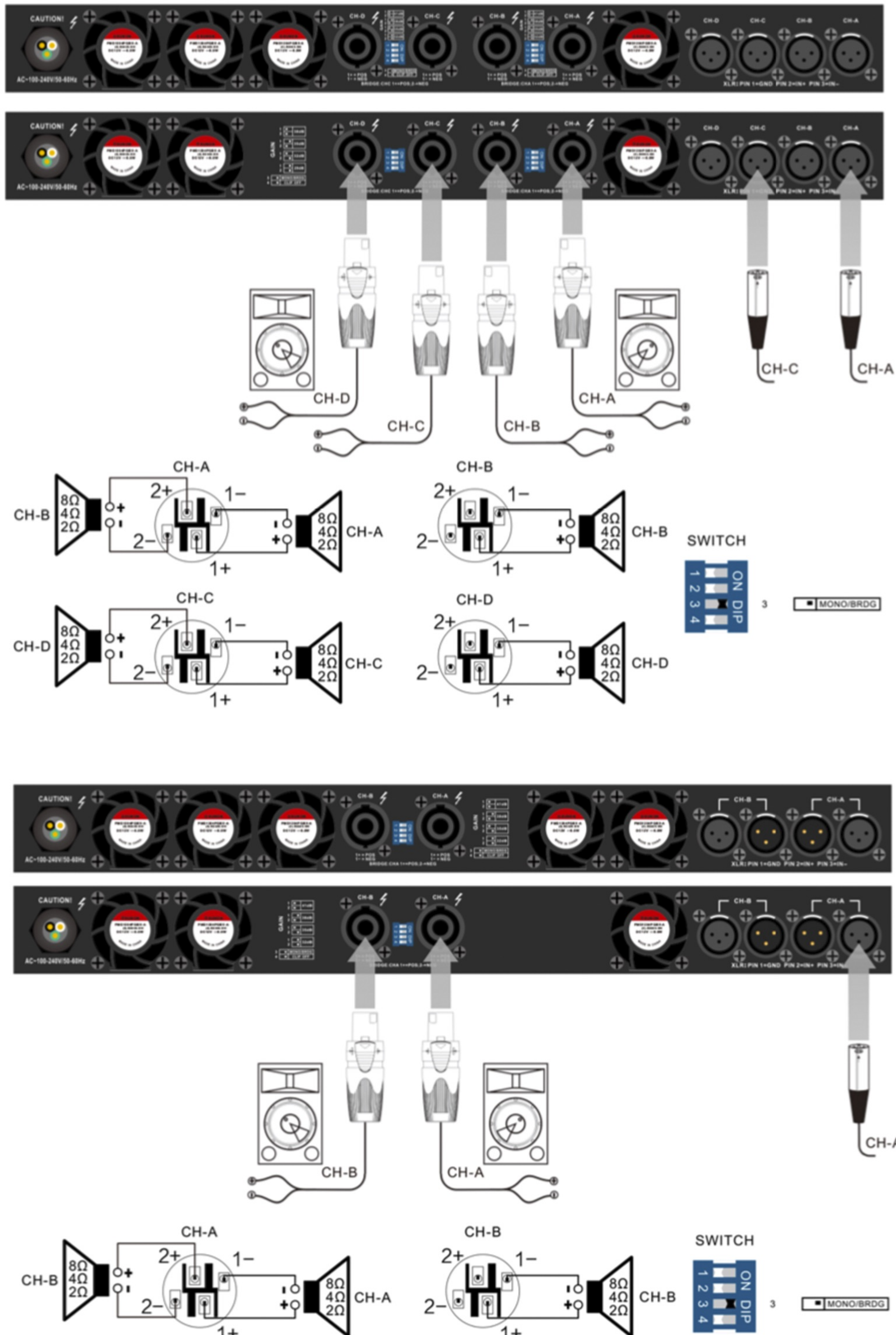
BRIDGE MODE



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AUDIO INPUT AND OUTPUT CONNECTIONS

MONO MODE





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PROFESSIONAL POWER AMPLIFIER SPECIFICATIONS

	D16K	D10K	
Rated Output Power (THD+ N=1%,1kHz continue sine wave, all channel driving)	8Ω Stereo Power	4×2000W	4×1000W
	4Ω Stereo Power	4×3400W	4×1700W
	2Ω Stereo Power *	4×4760W	4×2890W
	16Ω Bridge Power	2×4000W	2×2000W
	8Ω Bridged Power	2×6800W	2×3400W
	4Ω Bridge Power *	2×9520W	2×5780W
Output RMS voltage (THD+N=1%, 1kHz)	126.5V	89.4V	
Slew Rate (1kHz, low-pass filter by passed)	50V/us		
Sensitivity (Rated Power,1KHz)	selectable	selectable	
	41dB	38dB	
	38dB	35dB	
	35dB	32dB	
	32dB	29dB	
THD+N (10% Rated Power, typical)	0.01%		
IMD-SMPTE (10% Rated Power, typical)	0.01%		
DIM30 (10% Rated Power, typical)	0.01%		
Cross-talk (20Hz-1KHz, below Rated Power)	≥90dB		
Frequency Response (10% Rated Power, 20Hz-20KHz, 8Ω)	±0.2dB		
Input Impedance	20kΩ Balance 10kΩ Unbalance		
Damp Factor (8Ω, 20Hz-200Hz)	≥5000		
SNR (A weighted 20Hz-22KHz)	≥105 dB		
Main Power	90-260VAC, 50-60Hz		
Protection	Under voltage, DC, Over temperature, Over load limiter, Short protection.		
Size (WxHxD)	483x44x465mm 19x1.7x18.3"	483x44x370mm 19x1.7x14.5"	
Net weight	13kg 28.6 Lbs	9kg 19.8 Lbs	

* Test condition: 20ms,1KHz,THD+N = 1%.