



OWNER'S MANUAL (Version II)

Better Music Builder is a leader in the Audio and Karaoke equipment industry. We are committed to offering you the high quality audio product. We may update our manual, so we highly recommend you to download the free update from our website www.BetterMusicBuilder.com.

Professional Mixing Amplifier

DX-388 G2



Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

Passionate about Music
www.BetterMusicBuilder.com

We will not notify you any errors or changes in this manual in advance. If there are any errors and changes in this manual, we will make the corrections in a timely manner. The corrections and changes will be appeared in our website. Therefore, please visit our website www.BetterMusicBuilder.com frequently to find out the most updated information, corrections on errors and changes in this manual. You may also contact us at toll free at 1-800-318-2218.



SAFETY INSTRUCTIONS

1. Read Instructions: All the safety and operation instructions should be read before this product is operated.
2. Retain Instructions: The safety and operating instructions should be kept for future reference.
3. Warnings: All warnings on this product in these operating instructions should be followed.
4. Follow Instructions: All operating and other instructions should be followed carefully.
5. Water and Moisture: This product should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, swamp or salivating St. Bernard dog, etc.
6. Cleaning: Clean only with a dry cloth.
7. Ventilation: This product should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be placed on a bed, sofa, rug, or similar surface that may block any ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.
8. Heat: This product should be stayed away from

heat sources such as radiators, or other devices producing heat.

9. Power Sources: This product should be connected to a power supply only of the type described in these operation instructions or as marked on this product.

10. Power Cord Protection: Power supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them. Please pay particular attention to cords plugs, convenience receptacles, and the point where they exit this product.

11. Object and Liquid Entry: Care should be taken so that objects do not fall on, or liquids are not spilled into this product.

12. Damage Requiring Service: This product should be serviced only by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has spilled into this product; or
- C. This product has been exposed to rain; or
- D. This product does not appear to operate normally or exhibits a marked change in performance; or
- E. This product has been dropped, or its chassis has been damaged.

13. Servicing: The user should not attempt to service this product beyond those means described in this operating manual. All other servicing should be referred to the Service Department.

14. To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

15. Grounding or Polarization: Precautions should be taken so that the grounding or polarization means of this product is not defeated.

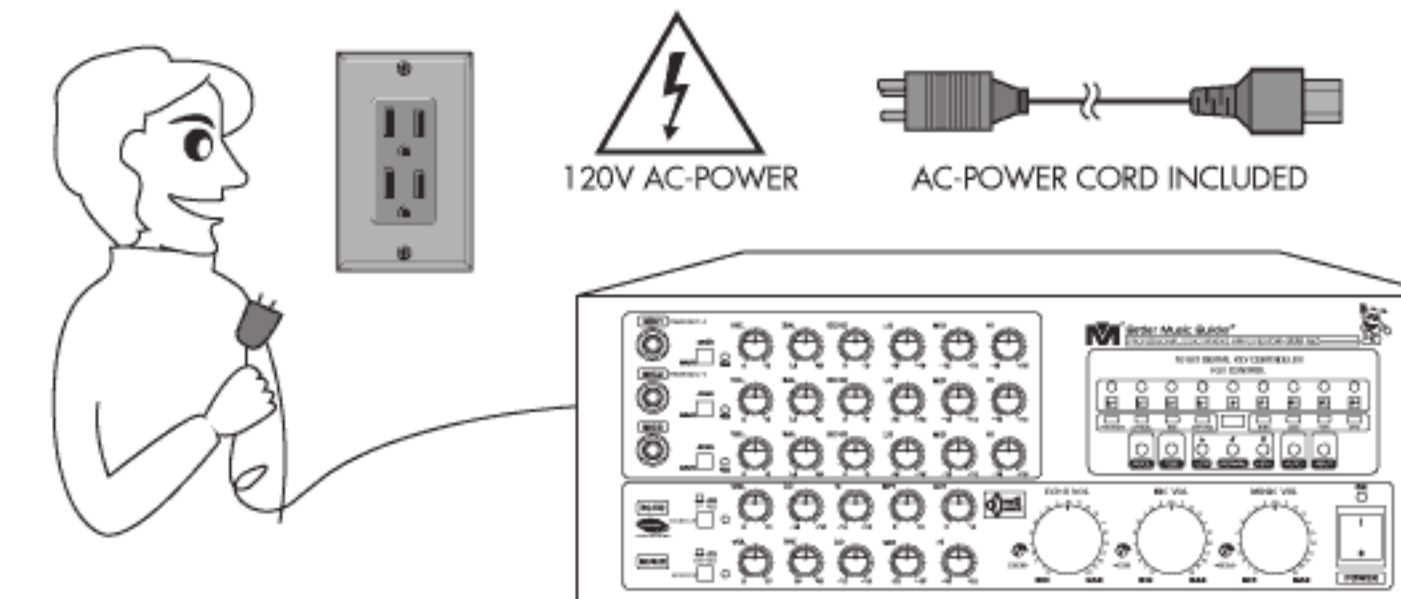
16. Power Precaution: Unplug this product during lightning storms or when unused for long periods of time. Note that this product is not completely disconnected from the AC power source when the power switch is in the OFF position.

17. This machine does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the US Department of Communications.

AC-POWER SOURCES

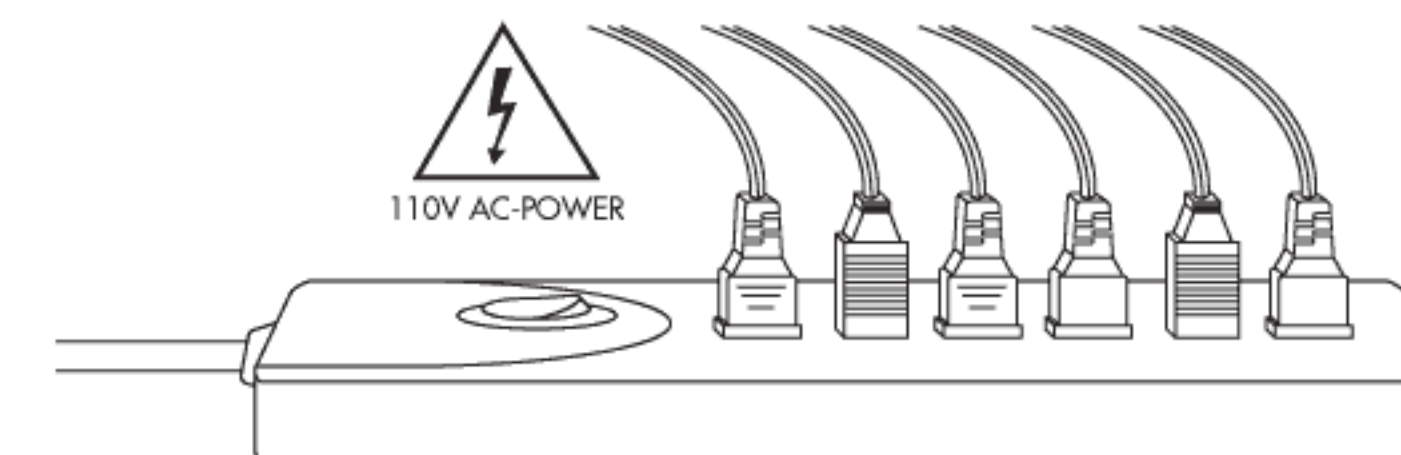
This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.

This unit is designed for use with 120V/60Hz AC. If the area where you live have different power source, you may need to use a transformer to convert to 120 Volts AC.



OVERLOADING

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

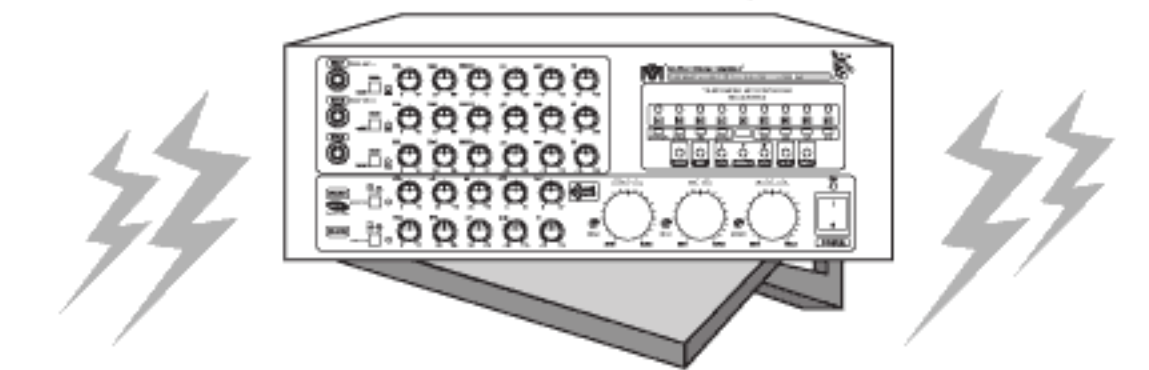


An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

Do not place the electronic equipment onto the unstable table or stand. It is because it would fall easily from the unstable table or stand, so it may cause accident including personal injuries and damage the equipment. Please follow our instructions to install the equipment, or you may hire a professional technician to handle the installation for safety purpose.

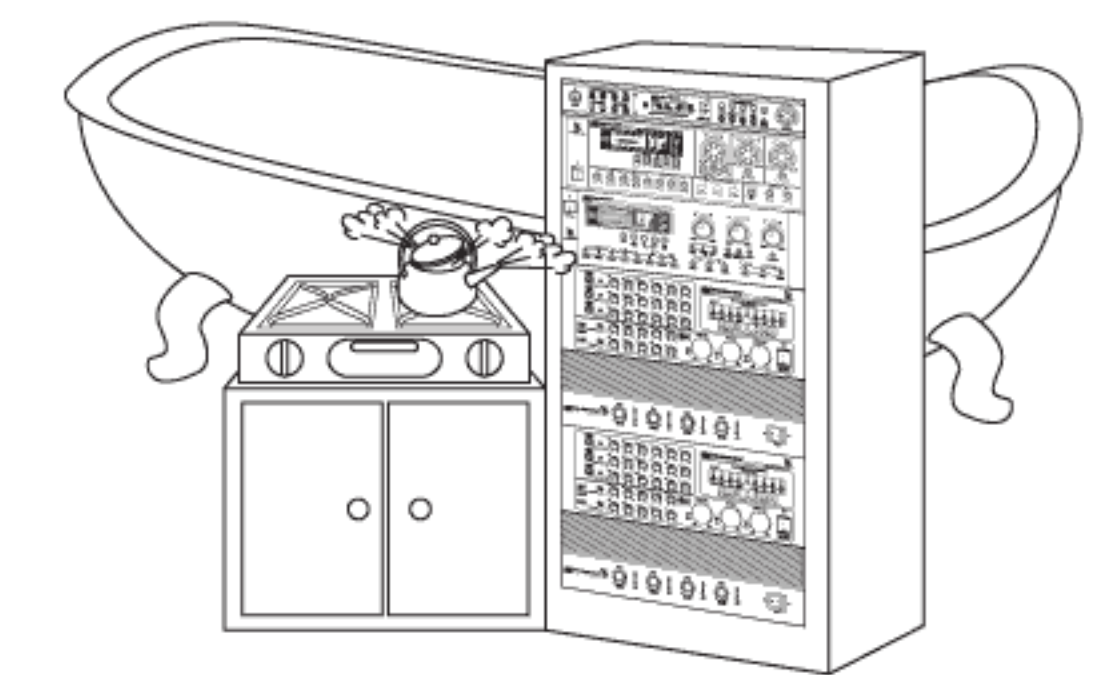


Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart stand tripod, bracket, or table recommended by the manufacturer.



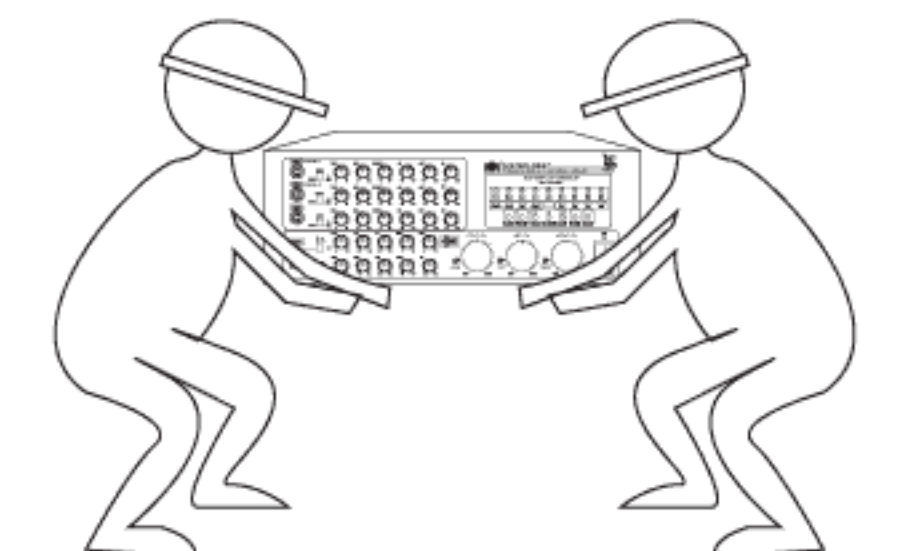
For the set with a three-wire grounding type ac plug: This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.

Do not store the electronic equipment near water or area with moisture such as bathroom, kitchen sink, laundry area and swimming pool, etc.

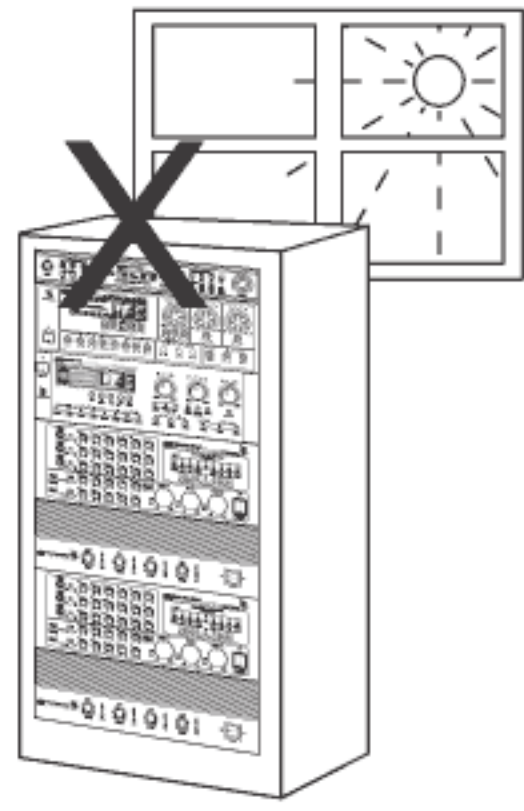


Do not transport the electronic equipment by yourself if its weight exceeds 70 pounds.

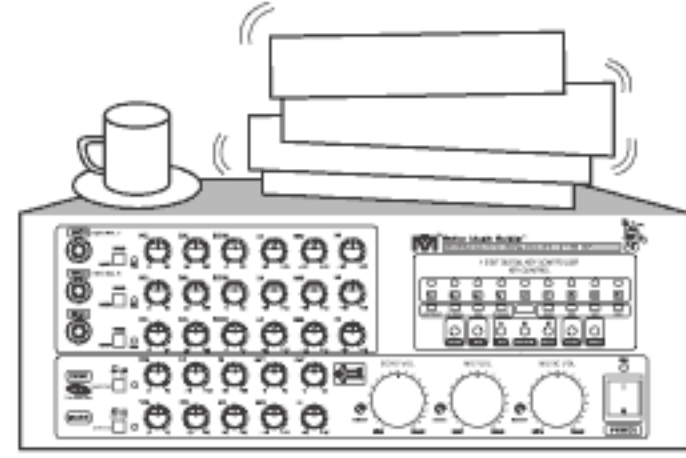
It is recommended that two people work together to transport the equipment or by using hand truck and the like.



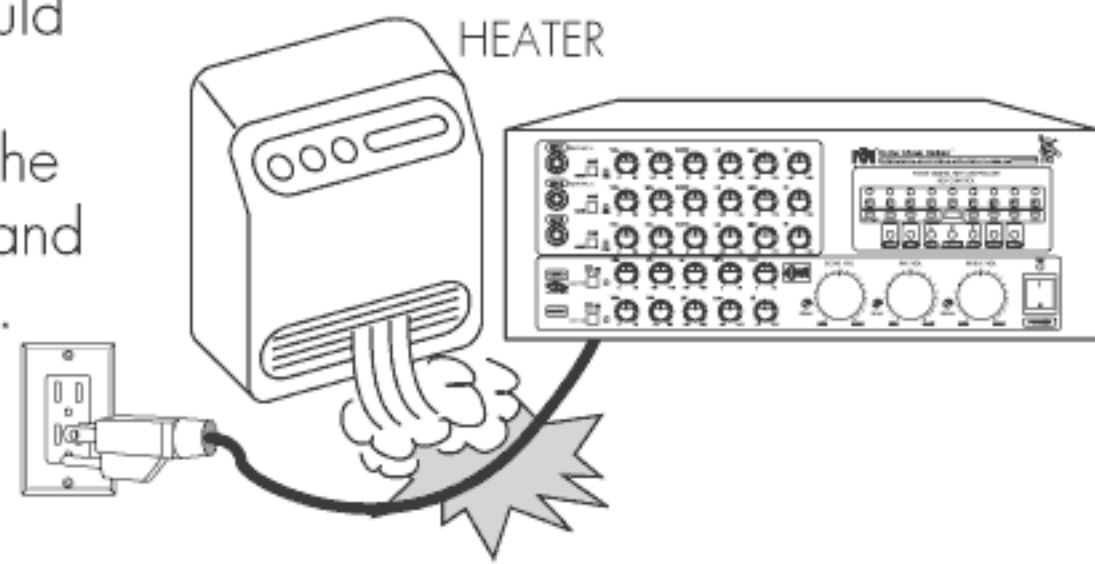
Do not place the electronic equipment directly under sunlight or close to the window. It may cause overheat on the electronic equipment by the sunlight.



Do not block the openings and vents in the cabinet which is designed for the ventilation of the electronic equipment. The blocking may cause overheat in the electronic equipment because of insufficient circulation of air, so it would damage the electronic equipment.

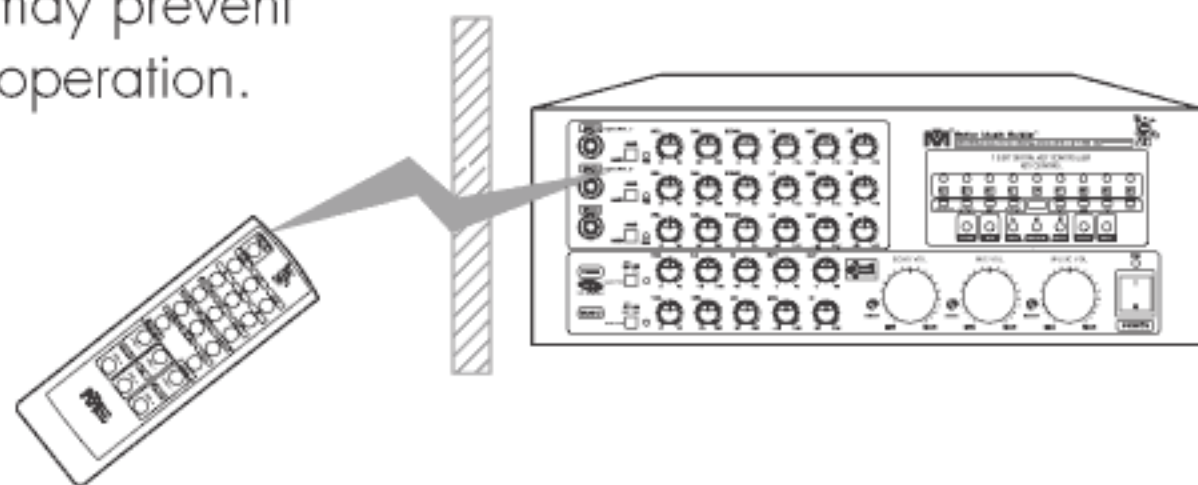


Do not place the electronic equipment near heat sources such as stoves, radiators and heaters, etc. Placing the electronic equipment too near to these heat sources would result in damaging the equipment and causing fire.



Using the Remote Control Unit

Use the remote control unit by pointing it towards the remote control sensor on the amplifier. Objects between the remote control unit and the remote control sensor may prevent proper operation.

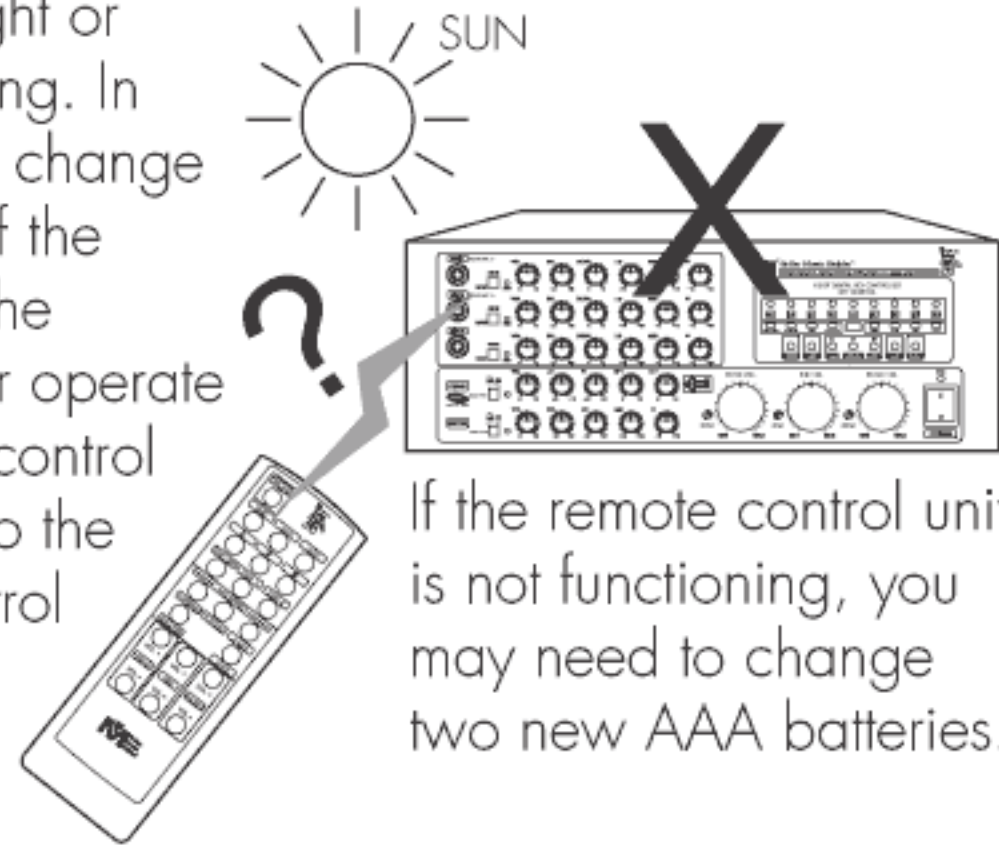


Cautions Regarding the Remote Control Unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.



- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote control unit may not work properly if the remote control sensor on the amplifier is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the amplifier, or operate the remote control unit closer to the remote control sensor.



If the remote control unit is not functioning, you may need to change two new AAA batteries.

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INTRODUCTION

Thank you for choosing the Better Music Builder DX-388 G2 Stereo Mixing and Digital Key Control Power Amplifier (also called DX-388). This is the second generation and improved version of DX-388. We appreciate your vote of confidence in this innovative product. DX-388 G2 is indeed a hybrid of power amplifier and mixer that can help you save more space and achieve convenience. You can control the feedback easily at the front panel with this unit. DX-388 G2 is designed to fulfill the amplification needs of almost any type of application. It also boasts some special features you would expect to pay for such as adjustable built-in equalizer at different levels (i.e. Hi-EQ, Mid-EQ, and Low-EQ) which enables the microphone to adjust music key while you are singing Karaoke, subwoofer filtering, and speaker-protecting limiter, etc. Perhaps the most important feature of the DX-388 G2 Power Amplifier is the attention to detail in every aspect of designs.

DX-388 G2 has the special feature of vocal cancellation, which makes your Karaoke singing conveniently. It also has the built-in BBE special sound effects to enhance the vocal and music mixing clearly. The special design of DX388 G2 can also satisfy multi-uses for home Karaoke, Professional D.J., KTV rooms and equipment rental.

The second generation of this mixing power amplifier is designed in such a way that it has four A/V inputs (DVD, VCR, CDG and BGM), and both manual and auto input selections can be set up. It also has nine built-up music key controls. Adjustments for MUSIC, MICROPHONE TONE and ECHO can be made separately at the front panel.

The most difficult things for a power amplifier to handle is clipping. Conventional designs use lots of negative feedback to provide stability and lower distortion. When clipping occurs, this "feedback" can cause high-frequency sticking, keeping the amplifier "latched" in the clipping state longer than necessary. Therefore, it results in painfully audible distortion. The design of BMB DX-388 G2 can eliminate this high-frequency sticking and allows the amplifier to remain stable when powering high reactive loads high volume level. To operate the DX-388 G2 Stereo Mixing and Digital Key Control Amplifier properly, please read this manual carefully and follow the instructions.

SPECIAL FEATURE DESCRIPTIONS

GAIN

There are two viewpoints regarding the gain structure of power amplifiers - constant gain and constant sensitivity. Constant gain means that regardless of the output power of the amplifier, the gain from input to output remains the same. (By the way, this refers to the full gain of the amplifier, with the gain or level controls all the way up.) Within a product line of constant gain power amplifiers, as the output power rating of an amplifier increases, the level of the input voltage must also increase. For example, if an amplifier is rated at 100W into an 8-ohm load, and it has 26 dB of gain, it requires an input signal of 1.4V rms to drive it to full power. This is about +5 dBu, a reasonable operating point for professional gear.

Now take an amplifier rated at 200W into an 8-ohm load. If it also has a gain of 26 dB, it requires an input signal of 2.0V rms to drive it into full power, or +8 dBu. This can become problematic as the power of the amplifier increases. What if you have a power amp rated at 800W into 8 ohms? This will require an input signal of 4.0V rms to drive it to full power. This equates to a whopping +14.3 dBu. You've just robbed your mixer of 10 dB of headroom. You'll either have to have a good limiter to keep the transient peaks down, or turn down the level from the mixer and not use all the power available from the amplifier.

Constantly sensitivity means that regardless of the output power of the amplifier (the input voltage required to attain full output power) remains the same. As the output power of an amplifier increases, the gain of the amplifier must also increase. Referring back to the previous example, an amplifier rated at 100W into 8 ohms with a gain of 26 dB requires an input signal of 1.4V rms to drive it to full power. It has an input sensitivity of 1.4V rms. In order for the 200W amplifier to reach full power into 8 ohms with a 1.4V rms input signal, it must have a gain of 29dB. And the 800W amplifier will require a gain of 35 dB to reach full power with a 1.4V input signal.

So what are the pros and cons of these two approaches? The reason some amplifier manufacturers use the constant gain approach is because the noise specification looks better. It's a fact of physics that as the gain of the amplifier increases, the circuit noise is amplified and increases too. By maintaining a constant gain, the noise

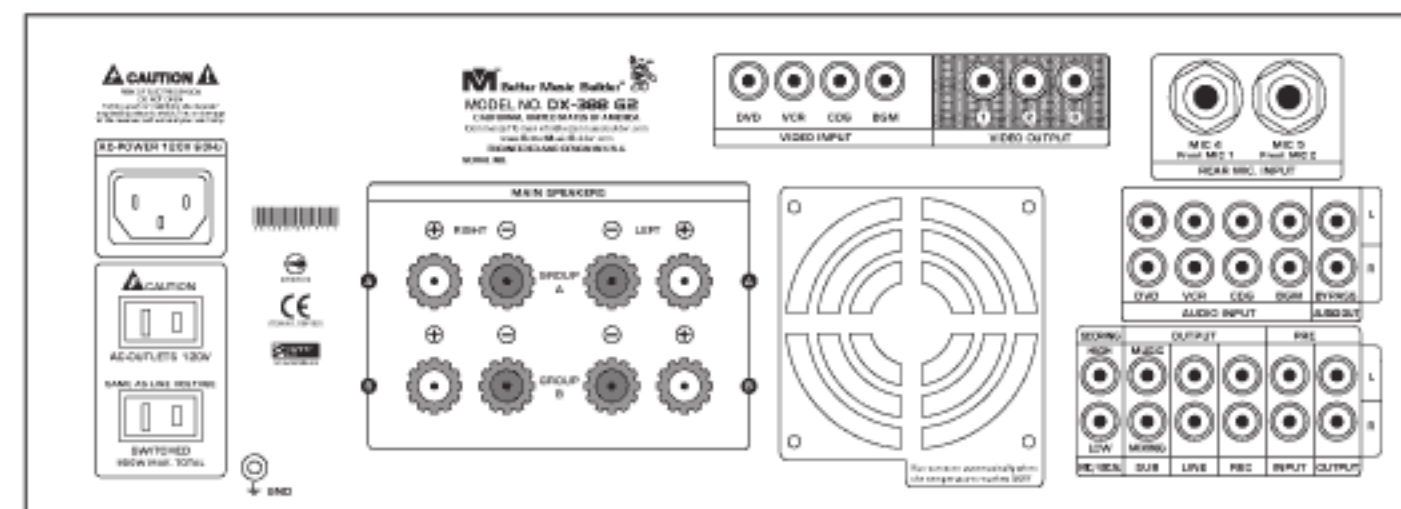
space for an 800W amplifier can look as good as the noise space for a 100W amplifier. The downside to this is that you have to crank up your mixer level feeding the input of the amplifier, losing headroom and possibly increasing the noise level from the mixer.

Conversely, constant sensitivity demands that as the power increases, so must the gain. Yes, the output noise of the amplifier will increase, but you maintain in the critical headroom available from your mixer. The additional noise is generally not a problem in live sound reinforcement situations. If it is, you can turn down the GAIN control a few clicks to find a happy compromise between noise floor and headroom available. As an added benefit, you can drive multiple amplifiers with the same signal and get the maximum power available from all of them.

The gain structure of the DX-388 G2 Stereo Mixing and Digital Key Control Amplifier is designed so that a 4 dBu (1.23V rms) input signal drives the amplifier to 425 watts into 4 ohms. This is how the sensitivity of an amplifier is defined. In this case, it equates to a voltage gain of about 20 dB.

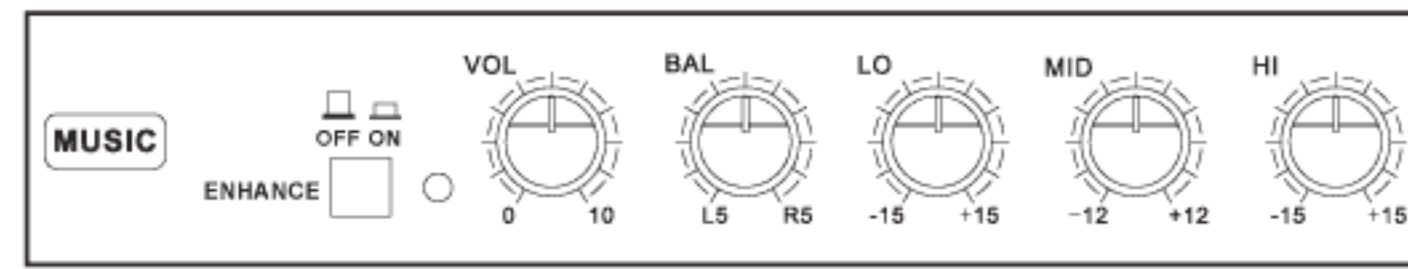
You can set the GAIN controls as low as you like. However, reducing GAIN controls requires an increased input level to reach full power at the amplifier's output. Like all amplifier controls, you'll typically determine the optimal settings during installation or sound check, then leave them alone, using your signal source to control listening level as you work.

AUTOMATIC ZERO VOLUME ADJUSTMENT



The special function of the automatic volume adjustment automatically sets both of the MIC MASTER VOL and MUSIC MASTER VOL to zero volume level when the power is turned on. This would avoid sudden painfully loud sound to damage hearing power for ear. You can switch it to for manual operation. However, we recommend you to use this function to protect your hearing power.

MUSIC TONE



Music tone adjustment can be made at the front panel. Please refer to the following. The MUSIC tone has a balance adjustment for left and right signals.

HI-EQ

This control provides from -15 dB to +15 dB of boost of cut, and it is also flat at the detent. Use it to add sizzle to cymbals or an overall sense of transparency or edge to keyboards, vocals, guitar, and bacon frying.

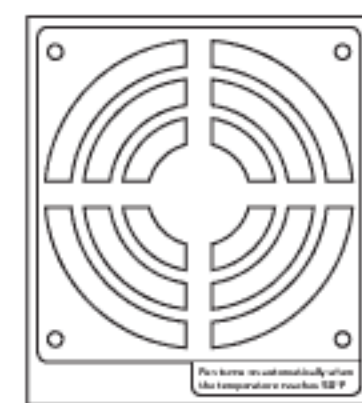
MID-EQ

Short for "midrang," it provides from -12 dB to +12 dB of boost or cut, also flat at the center detent. Midrange EQ is often considered the most dynamic because the frequencies that define any particular sound are almost always found in this range.

LOW-EQ

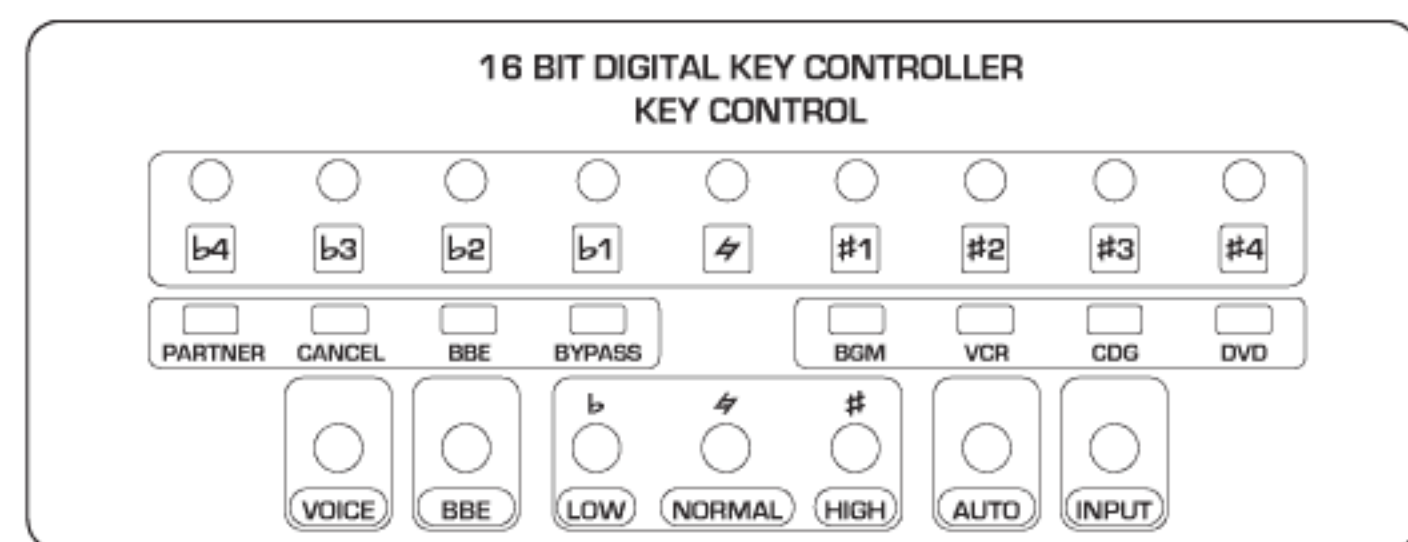
This control provides from -15 dB to +15 dB of boost. The circuit is flat (no boost or cut) at the center detent position. This frequency represents the punch in bass drums, bass guitar, fat synth patches, and high-testosterone male singers.

SMART FAN



The fan at the back of the DX-388 G2 Stereo Mixing and Digital Key Control Amplifier automatically turns on to cool down the heat when the temperature reaches 50 degree Fahrenheit.

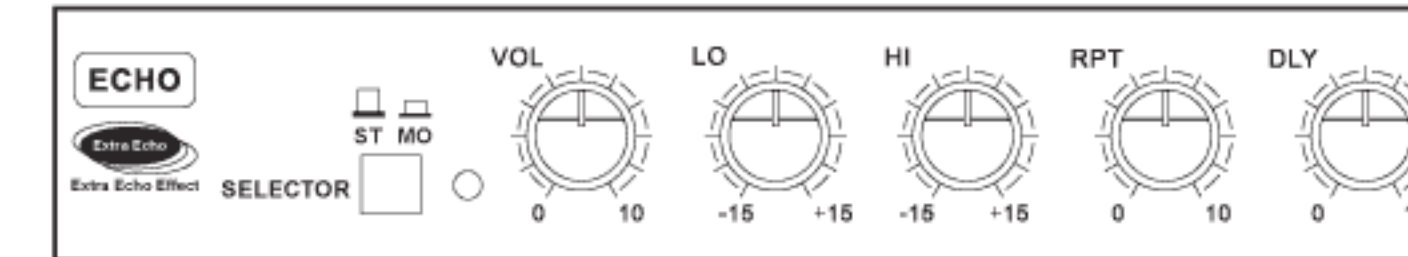
MUSIC KEY CONTROL



Adjust the music key for Karaoke singing. Increase the music keys from #1 to #4 and decrease the music keys from b1 to b4.

Three channels (Left, Bass and Right): When there is flashing signal in one of these three channels, it means the amplifier has reached its maximum power output and is overload. If it continues to operate under this condition, it may burn the amplifier or the speakers.

ECHO EFFECT



This ECHO EFFECT control can adjust special effects for microphone vocal only such as Repeat (RPT), Delay (DLY), Low (LO) and High (HI) and Volume (VOL).

GENERAL CONSIDERATIONS

AC POWER DISTRIBUTION

The majority of AC outlets encountered in homes and clubs are served by a 240VAC center-tapped service entrance transformer. This provides two phases of AC power on either side of the center tap at 120V each. In order to minimize ground loops, the safety grounds for all the outlets should be connected to a common ("star") grounding point, and the distance between the outlets and the common grounding point should be as short as possible.

If lighting is used in a show, it is preferable to power the lights from one leg of the service, and power the audio equipment from the other leg. This will help minimize noise from the lights coupling into the audio.

When setting up for a show, very often you are plugging into an AC power distribution system you know nothing about. You may even be faced with 2-wire AC outlet tester in your toolbox so you can check the outlets yourself to make sure they are wired correctly. These testers will tell you if the polarity of the hot and neutral wires is reversed and if the safety ground is disconnected. Don't use an outlet if it is wired improperly! This is to protect yourself as well as your equipment.

If you find that you must plug into a two-wire outlet, you will need to use a two-wire to three-wire adapter (cheater plug). These come with a metal tab that you put underneath the center screw that holds the AC

outlet faceplate in place. This center screw must be grounded. You can check it by connecting the adapter to the outlet and then plugging in your AC outlet tester.

INPUT WIRING

Use a high-quality 3-conductor shielded cable to connect the signal between the signal source and the balanced inputs to the amplifier. If you're using the unbalanced inputs, use a high-quality 2-conductor shielded cable.

OUTPUT WIRING

Use heavy gauge, stranded wire for connecting speakers to the DX-388 G2 terminals. As the distance between the amplifier and the speakers increase, the thickness of the wire should also increase. Speaker wire has resistance, and when electricity passes through a resistor, power is lost. The thicker the wire, the less resistance it offers, and the more power actually gets to the speakers.

The thickness of wire is rated in gauges. Use the chart below to determine the correct gauge of wire to use according to the distance between the speakers and the amplifier, and the impedance of the load the amplifier is driving. This ensures that the power lost across the speaker wire is less than 0.5dB.

WIRE LENGTH	LOAD IMPEDANCE	GAUGE OF WIRE
Up to 25 ft	2Ω	14 gauge
	4Ω	16 gauge
	8Ω	18 gauge
Up to 40 ft	2Ω	12 gauge
	4Ω	14 gauge
	8Ω	18 gauge
Up to 60 ft	2Ω	10 gauge
	4Ω	12 gauge
	8Ω	16 gauge
Up to 100 ft	2Ω	8 gauge
	4Ω	10 gauge
	8Ω	14 gauge
Up to 150 ft	2Ω	6 gauge
	4Ω	8 gauge
	8Ω	12 gauge
Up to 250 ft	2Ω	4 gauge
	4Ω	6 gauge
	8Ω	10 gauge

SAFETY PRECAUTIONS

Selecting fine audio equipment such as the unit you've just purchased is only the first step to your musical enjoyment. Now it's time to consider how you can maximize the fun and the safety of your new equipment. We want you to get the most out of your equipment by playing it at a safe level without affecting your hearing. Sound can be very harmful. Over time your hearing "comfort level" adapts to higher volume of sound. What sounds "normal" can actually be loud and harmful to your hearing. Therefore, please guard against this by setting your equipment at a safe level before your hearing adapts. To establish a safe level, you can start your volume control at a low setting, then slowly increase the sound until you can hear it comfortably and clearly. If used wisely, your new sound equipment will provide you a pleasant experience in music. Since hearing damage from loud noise is often undetectable until it is too late, we recommend you avoid prolonged exposure to excessive noise. The following noises can be dangerous under constant exposure. Therefore, please be cautious with the dB level when playing your new equipment.

Decibel Level	Example
120 dB	Rock band concert in front of speakers, thunderclap
140 dB	Gunshot blast, jet plane
180 dB	Rocket launching pad

SPECIFICATIONS

Power Output (RMS): 200W+200W (8 ohm)
300W+300W (4 ohm)

Input Sensitivity: 200mV

Input Impedance: 47K ohm

BASS Control: 100Hz ± 1.5dB

MID Control: 1kHz ± 1.5dB

TREBLE Control: 10kHz ± 1.5dB

T.H.D.: <0.1%

Frequency Response: 20Hz~20kHz, -1dB

Noise Ratio: >90dB

Power Source: 120V / 60Hz

Microphone Connector: 1/4" TRS/unbalanced

Microphone Input Sensitivity: 1mV~100mV

Microphone Input Impedance: 1.5K ohm

Microphone T.H.D.: <0.5%

Microphone Frequency Response: 20Hz~15kHz, -3dB

Digital Echo: Up to 300ms

Video Input/Output: 1Vp-p/75 ohm

Standard Power: AC 120V/~60Hz

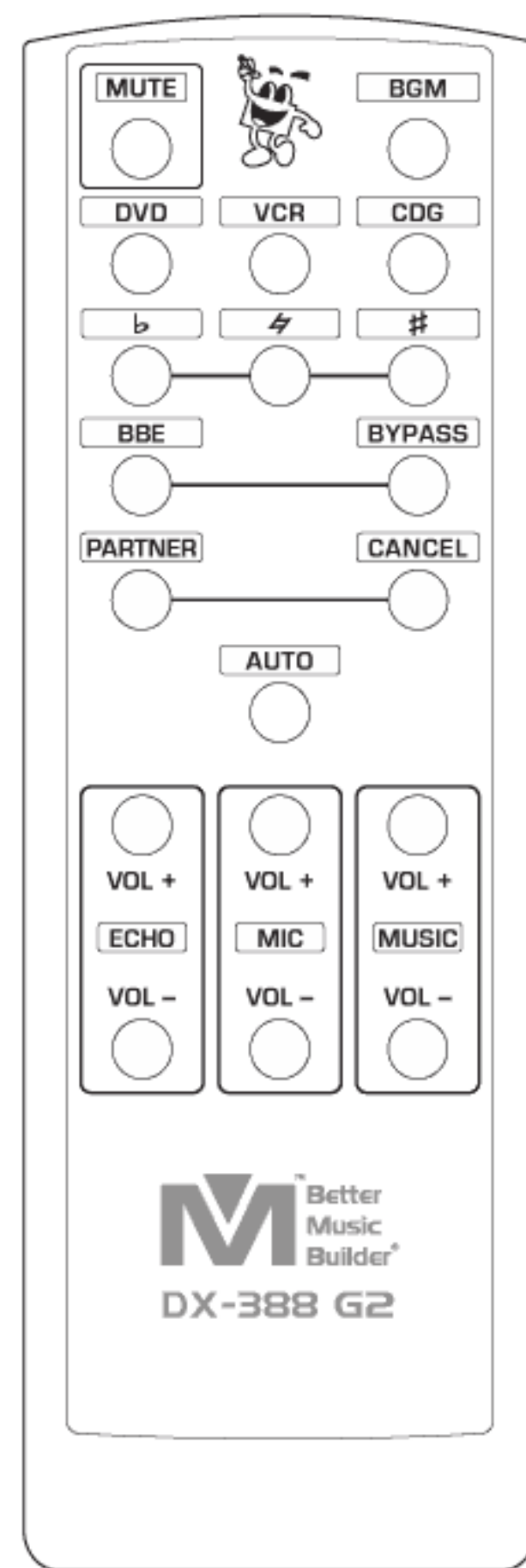
Dimensions (WxHxD): 17x7x16 (inches)/43x17.8x40.7 (cm)

Net Weight: 28.8 lbs / 13.1 kg

Shipping Weight: 34.6 lbs / 15.7 kg

PACKAGE ACCESSORIES

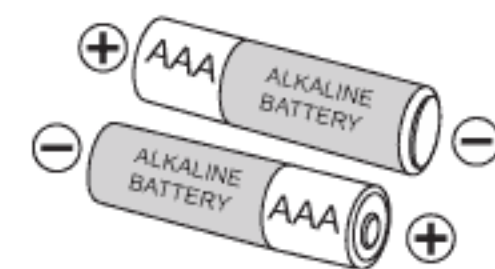
The Package accessories include a remote control and one AC power cord. All other accessories mentioned in the manual for installation purpose are not included. They are sold separately.



Remote control one unit



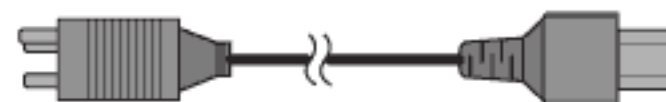
Consumer warranty and registration card
<Mail in U.S.A. only>
Consumers from Canada can get the warranty card by downloading it from our website www.BetterMusicBuilder.com.



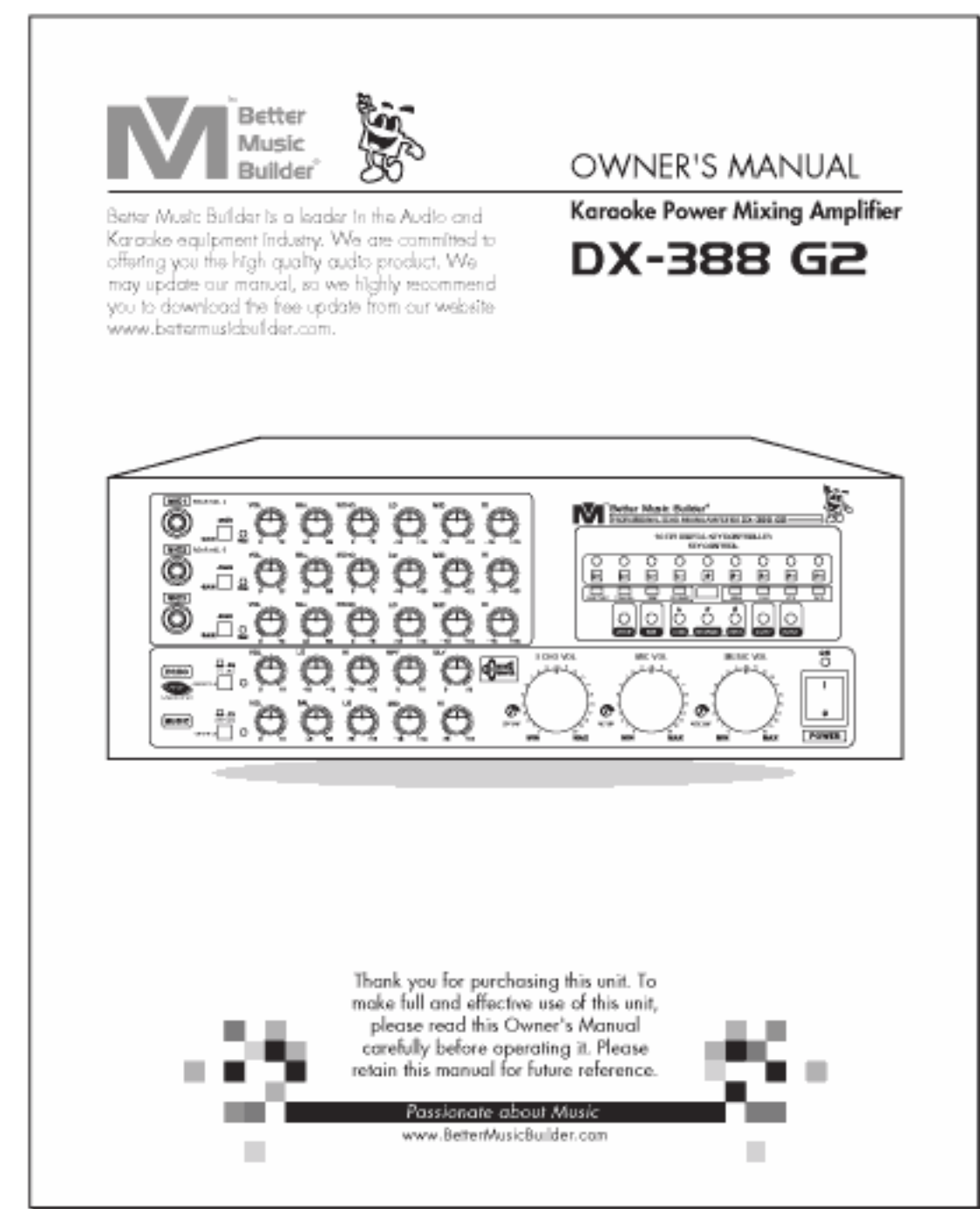
Battery size: AAA (R6 1.5 V)



Plastic Screw Driver

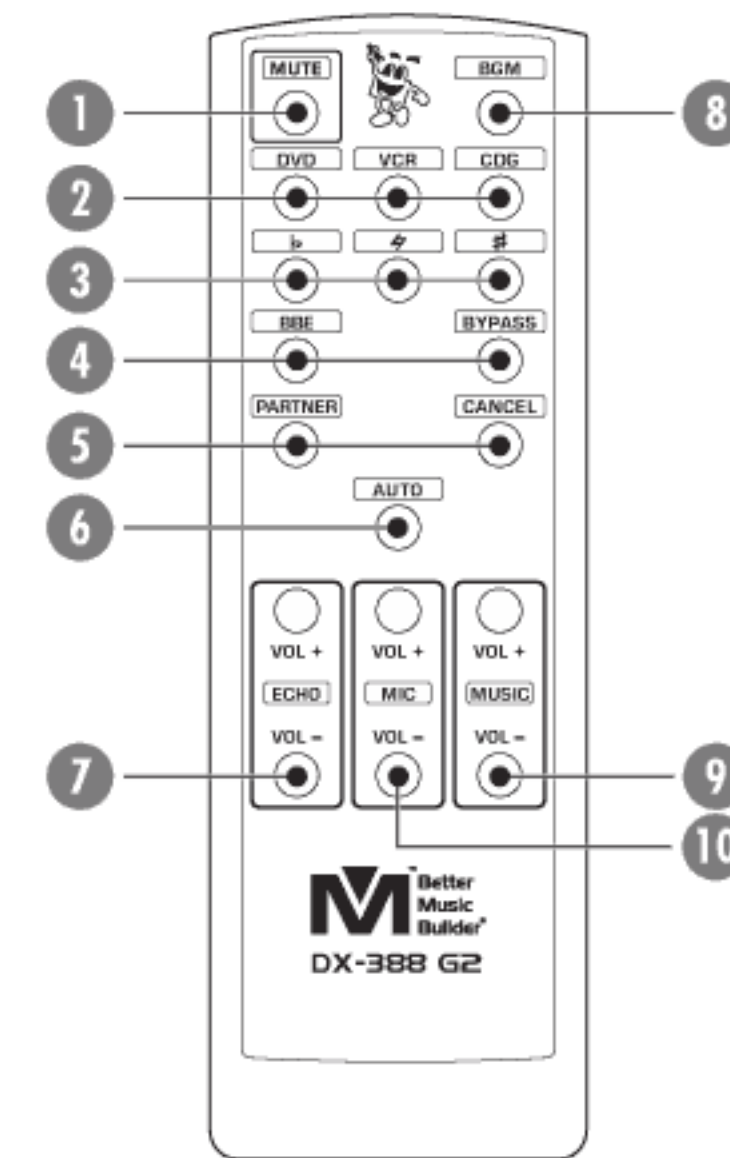


AC power cable (6 feet)
United States (2M) to IEC (F)

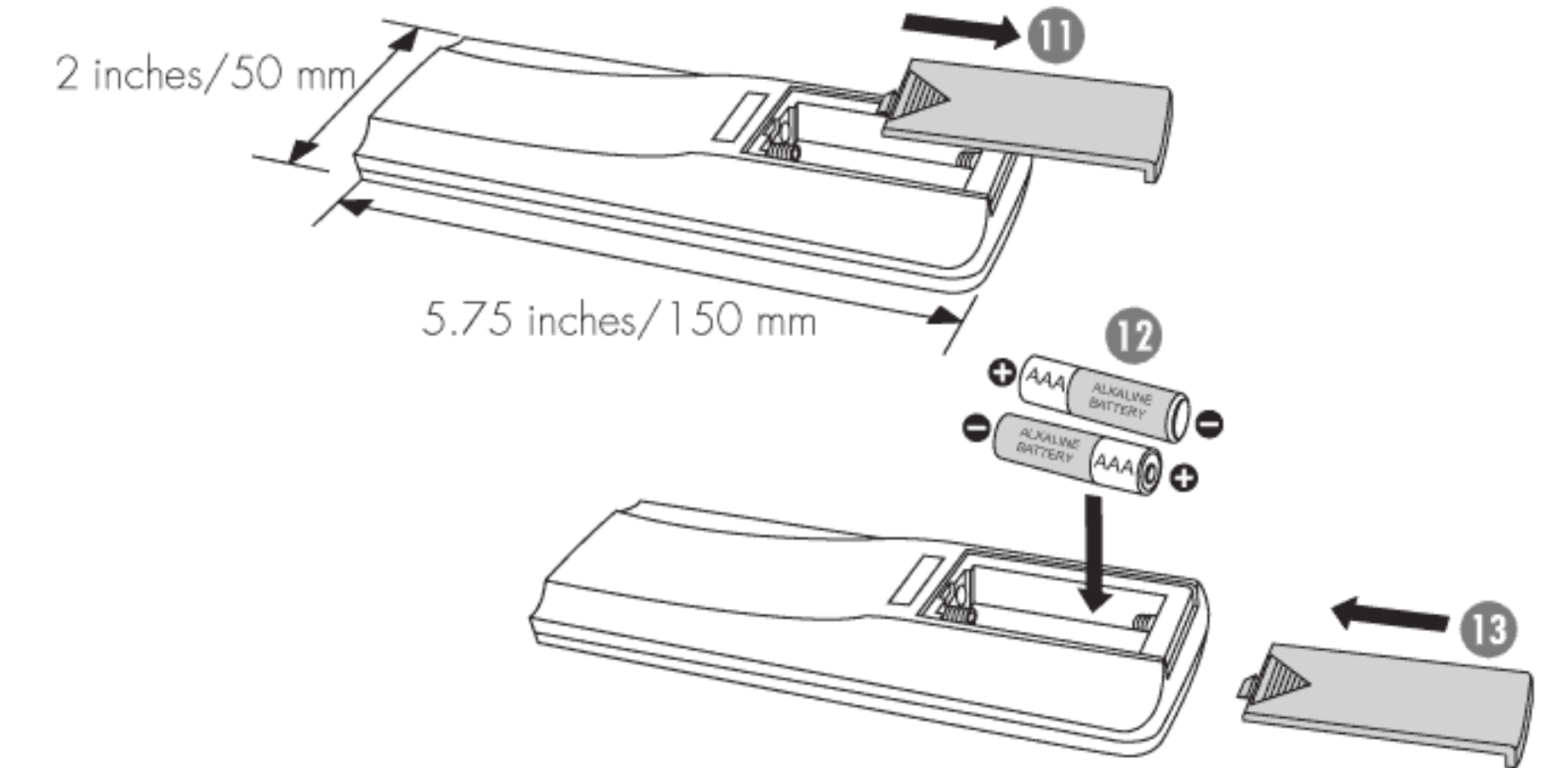


Owner's manual

REMOTE CONTROL BUTTONS



- 1 MUSIC MUTE BUTTON
 - 2 INPUT SELECT BUTTON: DVD, VCR, CDG
 - 3 KEY CONTROL: **b** LOW, **⚡** NATURAL, **#** HIGH
 - 4 BBE and BYPASS MODE CONTROL BUTTON
BBE enhances the audio signals. BYPASS keeps the original signal.
 - 5 VOICE CANCELLATION CONTROL BUTTON
It applies to Karaoke VCD and DVD disks only.
 - 6 AUTO INPUT SELECTOR REMOTE CONTROL
 - 7 ECHO VOLUME UP & DOWN BUTTON
 - 8 INPUT SELECT BUTTON: BGM (Background Music)
 - 9 MUSIC MASTER VOLUME CONTROL UP & DOWN BUTTON
 - 10 MICROPHONE VOLUME UP & DOWN BUTTON
 - 11 OPEN BATTERY COVER
- Open the battery compartment cover on the back of the remote control unit. The cover should open easily if you press on it with your thumb while sliding it in the direction of the arrow.



- 12 INSERTING BATTERIES
Insert two size AAA 1.5V (R6) alkaline batteries as shown.

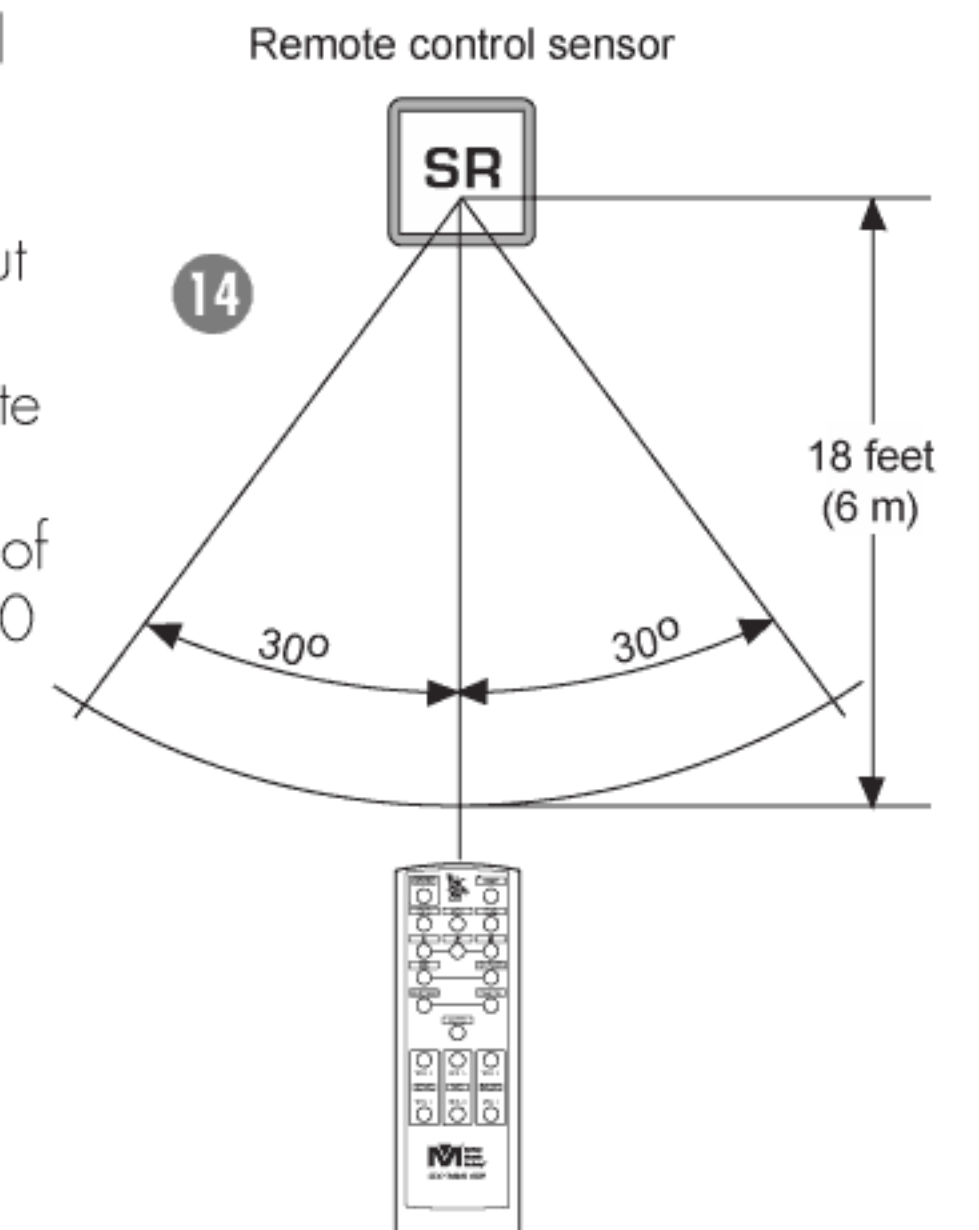
- 13 CLOSE BATTERY COVER
Close the cover of the battery case.

NOTE

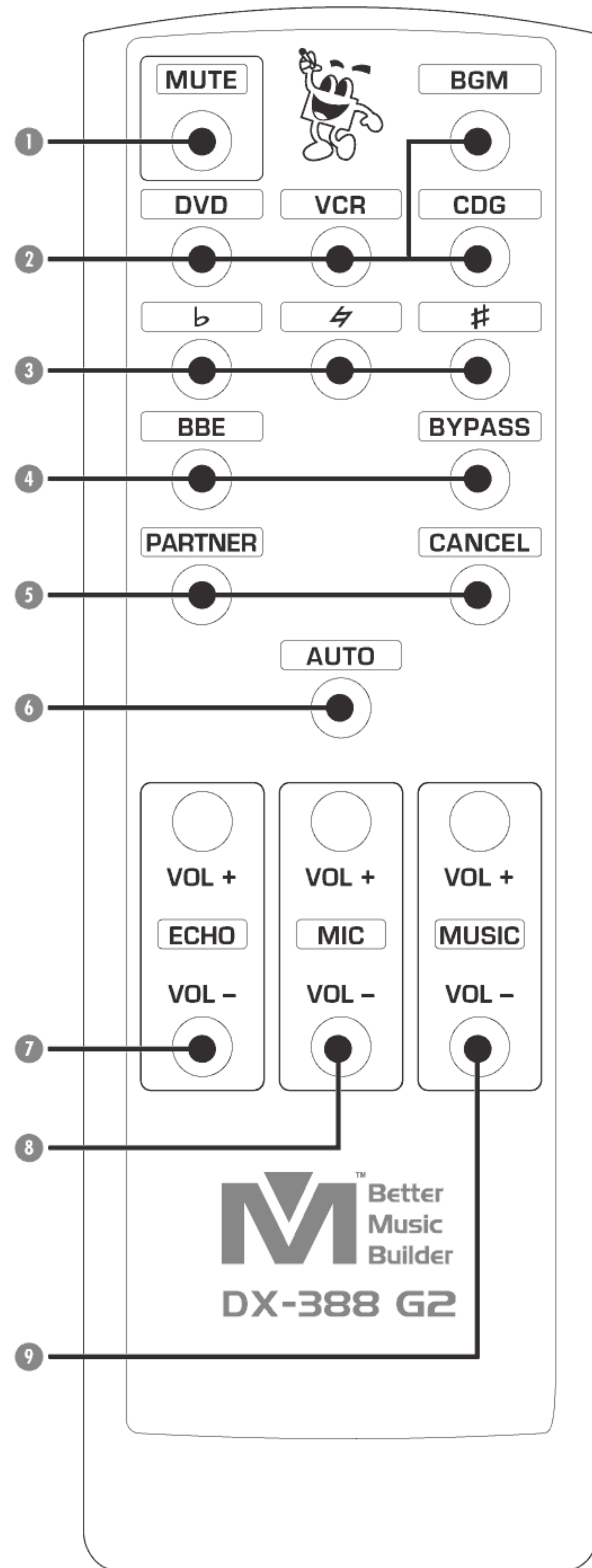
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.

- 14 USING THE REMOTE CONTROL UNIT
When operating the remote control unit, point the unit's infrared signal transmitter at the remote control remote sensor "SR" on the front panel of the AV processor. The remote control unit can be used within a range of about 18 feet (6m) from the remote sensor, and within angles of up to about 30 degrees.



FUNCTIONS OF REMOTE CONTROL BUTTONS



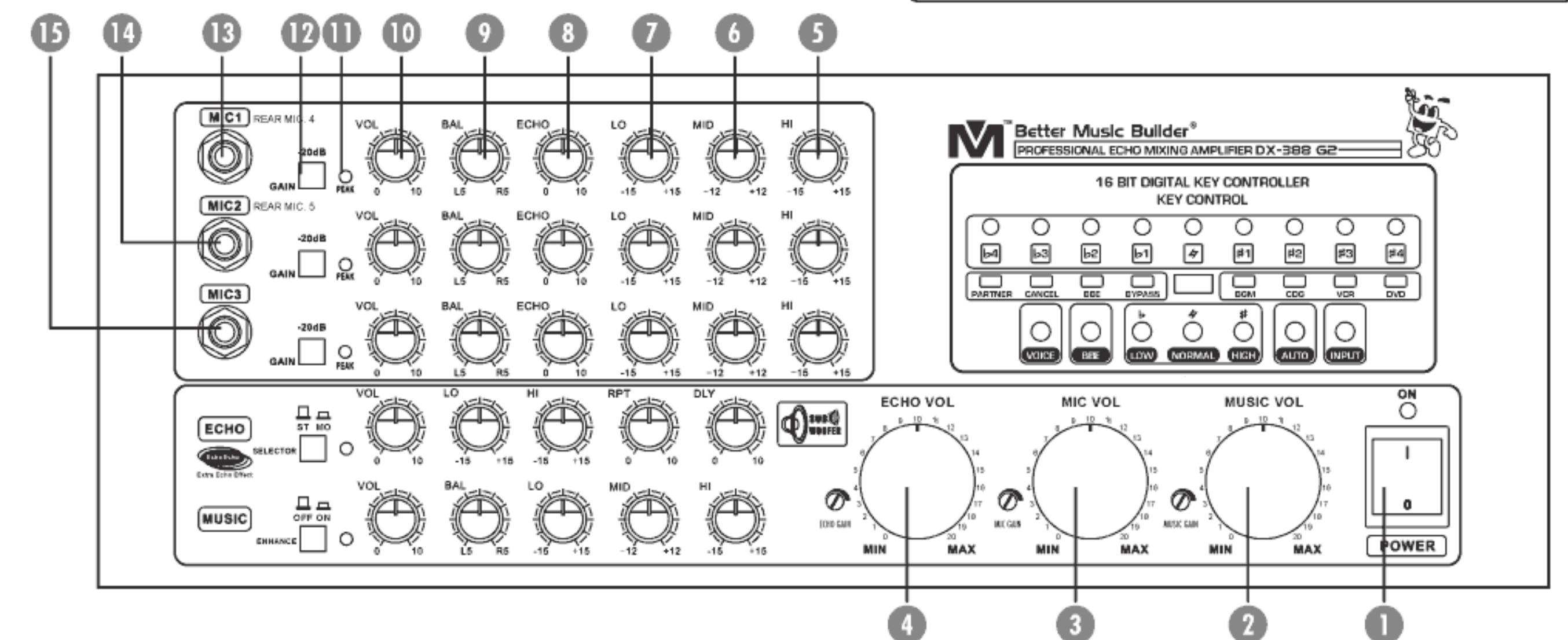
BASIC ADJUSTMENT SETTINGS

- MUSIC MUTE BUTTON**
Music Mute Button is for music only. The microphones are still active.
- INPUT SELECT BUTTON: DVD, VCR, CDG, BGM**
DVD is the first priority input. BGM (Background Music) is designed for KTV business. Both manual and auto input for selection are allowed.
- KEY CONTROL: b LOW, ⚡ NATURAL, # HIGH**
Key control button controls the music speed.
- BBE and BYPASS MODE CONTROL BUTTON**
BBE is responsible for special audio effects. To keep the original signal for recording, use BYPASS.
- VOICE CANCELLATION CONTROL BUTTON**
PARTNER and CANCEL buttons are controlled under the VOICE CANCELLATION button. When you press the PARTNER button, it is normal that the vocal may come from either the left or right speaker depending on the decoding format of the Karaoke disk.

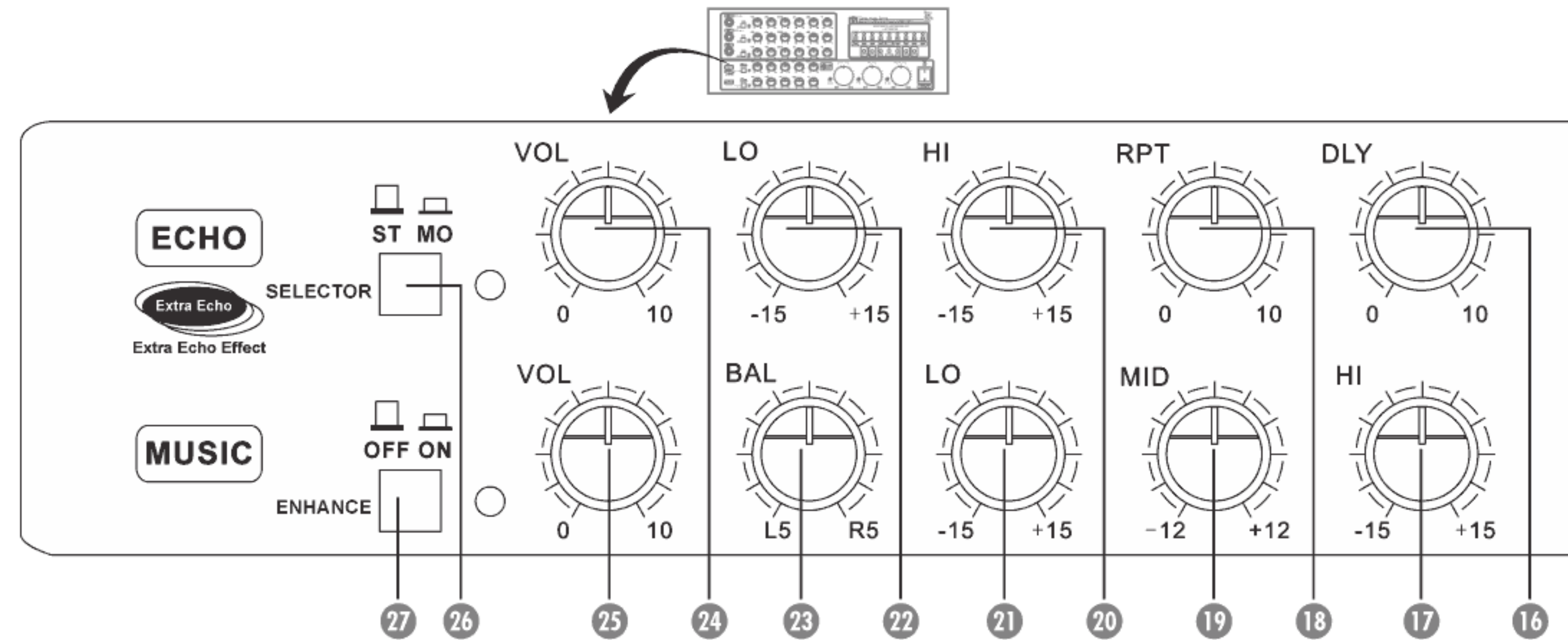
After pressing the CANCEL button, the original vocal is supposed to be cancelled. If the vocal is still there, it is possible that the original audio decoding in your disk is locked and your disk is not working. Please refer to page 23.
- AUTO INPUT SELECTOR REMOTE CONTROL**
Input selection for DVD, VCR, CDG and BGM automatically. DVD is the first priority input for selection.
- ECHO VOLUME UP & DOWN BUTTON**
Microphone Echo Volume control up and down.
- MICROPHONE VOLUME UP & DOWN BUTTON**
Microphone Master Volume control up and down.
- MUSIC MASTER VOLUME CONTROL UP & DOWN BUTTON**
Music Master Volume control up and down.

NAMES AND FUNCTIONS OF FRONT PANEL COMPONENTS

- POWER SWITCH**
Press this switch button UP to turn the power ON. Press the switch button DOWN to turn the power OFF (I=ON, O=OFF). Light blue LED is ON when unit is powered.
- MUSIC VOLUME CONTROL**
This control allows you to adjust the volume of the musical source. The volume level starts from 1 to 20 units (not the dB level).
- MIC. MASTER VOLUME CONTROL**
To control all microphones output level. The volume level starts from 1 to 20 units (not the dB level).
- ECHO VOLUME CONTROL**
To adjust the echo volume for all microphones. The volume level starts from 1 to 20 units (not the dB level).
- MIC. 1 (HI) HIGH CONTROL**
Adjusts the microphone 1 high frequency EQ response.
- MIC. 1 (MID) MIDDLE CONTROL**
Adjusts the microphone 1 middle frequency EQ response.
- MIC. 1 LOW CONTROL**
Adjusts the microphone 1 low frequency EQ response.
- MIC. 1 ECHO VOLUME CONTROL**
Adjusts the microphone 1 echo effect EQ response.
- MIC. 1 (BAL) BALANCE CONTROL**
Adjusts the microphone 1 signal for left and right speakers.
- MIC. 1 (VOL) VOLUME CONTROL**
Adjusts the microphone 1 volume.
- MIC. 1 SIGNAL LIGHT**
When it receives an audio signal at or above 0 dB automatically on. Signal will appear on the meters.
- MIC. 1 GAIN SWITCH**
Turn it on to increase the microphone signal level to -20 dB. Turn it down to decrease the microphone signal level to normal.
- MIC. 1 INPUT 1/4 JACK**
This jack is for connecting microphones to input 1 and rear MIC. Input 4. They are at the same terminal. Rear input is designed for wireless microphone.
- MIC. 2 INPUT 1/4 JACK**
This jack is for connecting microphones to input 2 and rear MIC. Input 5. They are at the same terminal. Rear input is designed for wireless microphone.
- MIC. 3 INPUT 1/4 JACK**
This jack is only for microphone input 3.

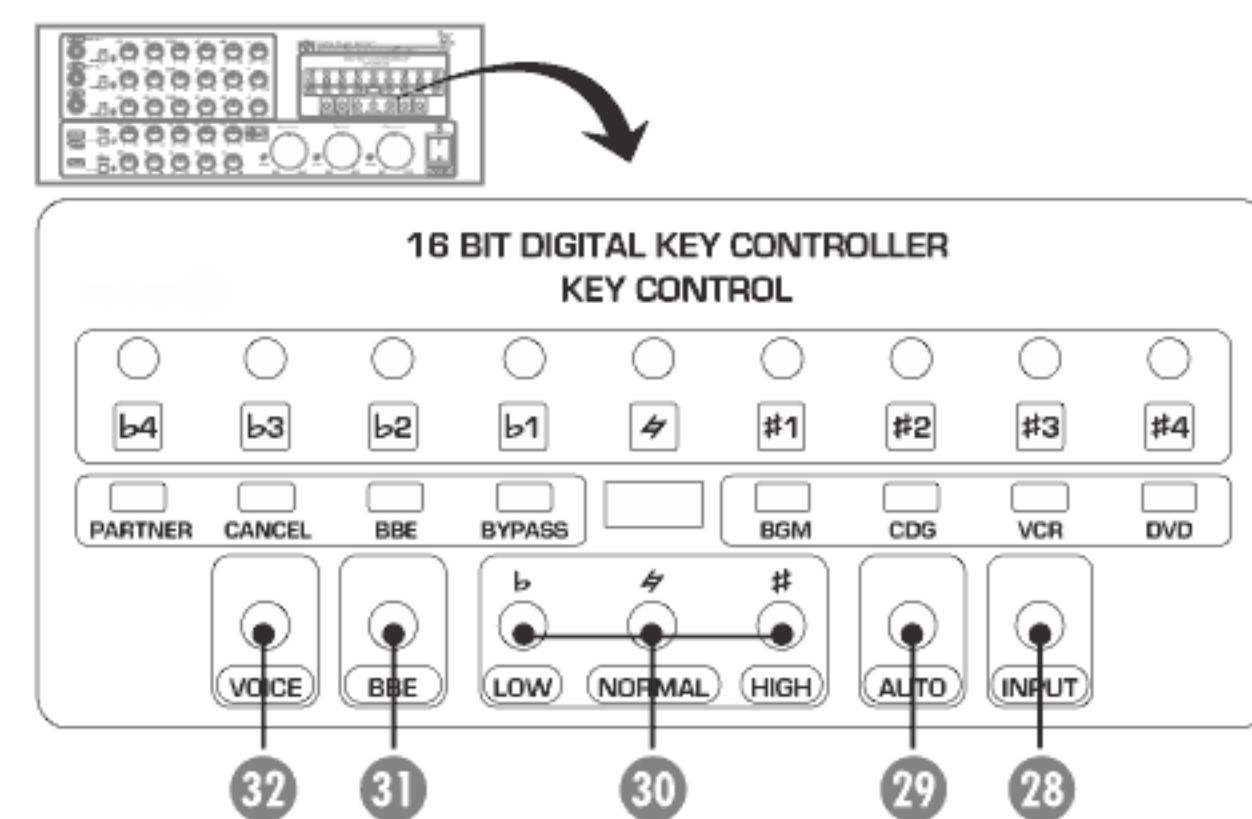


NAMES AND FUNCTIONS OF FRONT PANEL MUSIC TONE COMPONENTS



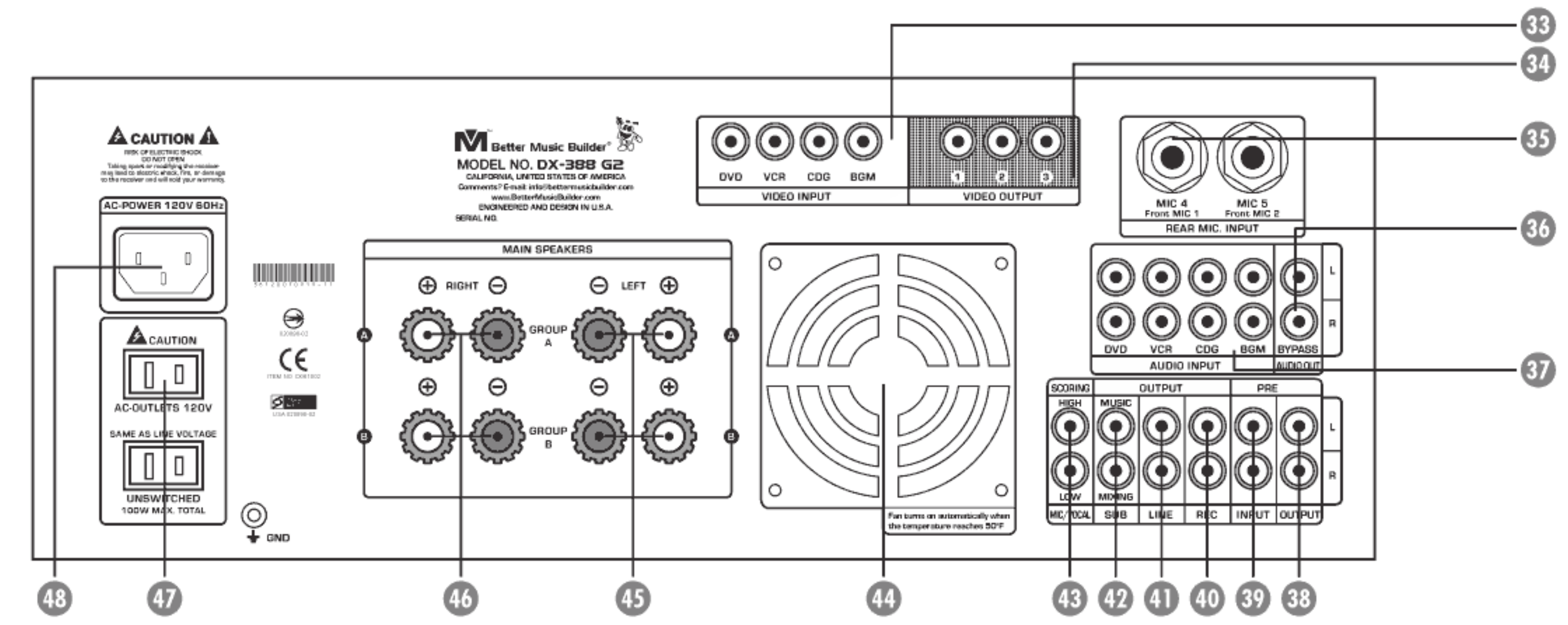
- 16 ECHO (DLY) DELAY BUTTON
- 17 MUSIC (HI) HIGH BUTTON
- 18 ECHO (RPT) REPEAT BUTTON
- 19 MUSIC (MID) MIDDLE FREQUENCY BUTTON
- 20 ECHO (HI) HIGH FREQUENCY BUTTON
- 21 MUSIC LOW FREQUENCY BUTTON
- 22 ECHO LOW FREQUENCY BUTTON
- 23 MUSIC (BAL) BALANCE BUTTON
Adjusts the music balance signal for left and right speakers.
- 24 ECHO VOLUME BUTTON
Adjusts the echo volume level. It will be affected all microphone.
- 25 MUSIC VOLUME BUTTON
Adjusts the music volume level.
- 26 STEREO OR MONO SELECTOR
Adjusts the echo stereo or mono.
- 27 ENHANCE SELECTOR
It enhances music source signal.

NAMES AND FUNCTIONS OF FRONT PANEL KEY CONTROLLER



- 28 INPUT SELECTION: DVD, CDG, VCR, BGM
- 29 AUTO INPUT SELECTION: DVD, CDG, VCR, BGM
- 30 KEY CONTROL
Set the desired key by the 16 bit digital key controller buttons that have nine steps with signal light display on top.
- 31 BBE MODE SELECTOR KEY
- 32 VOICE CANCEL CONTROL BUTTON

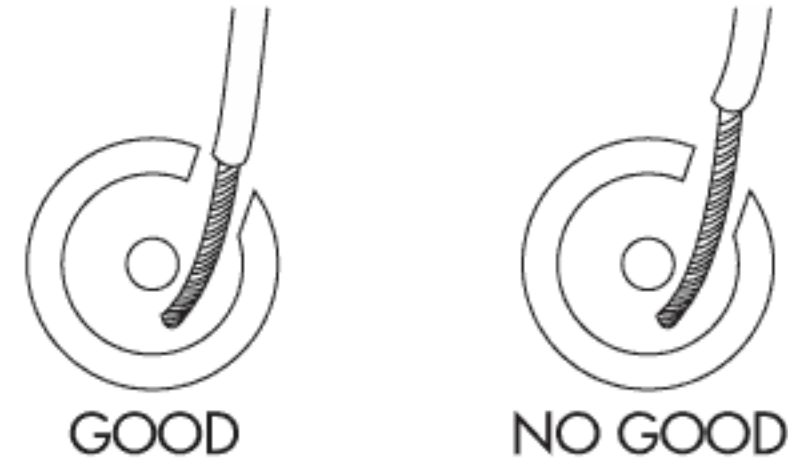
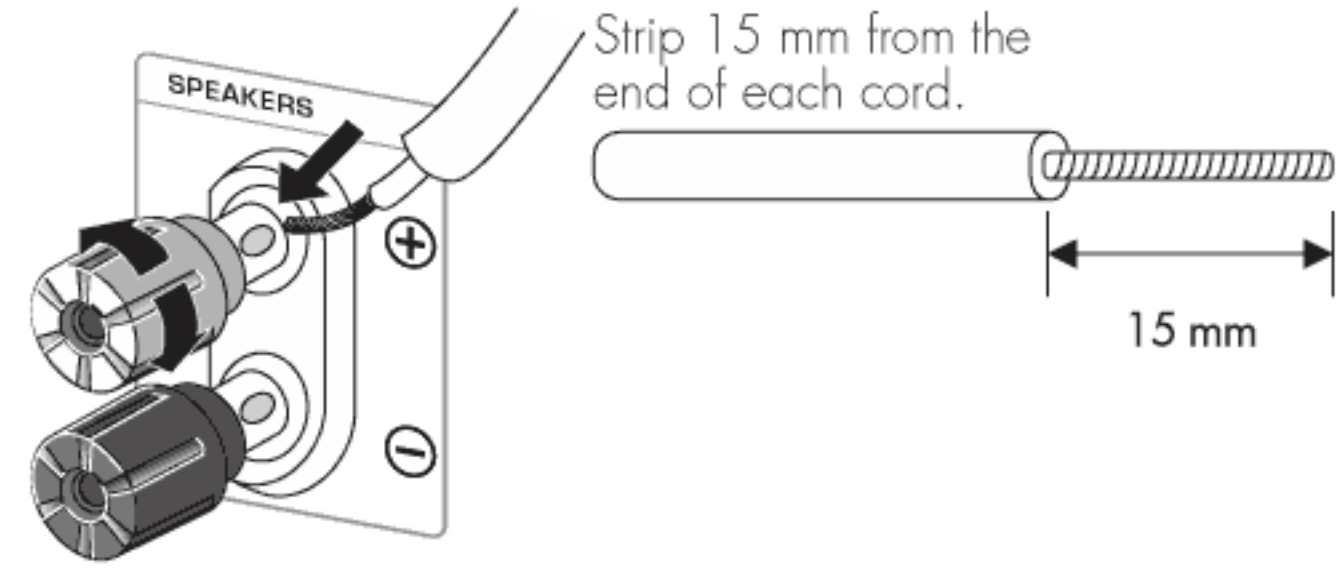
NAMES AND FUNCTIONS OF REAR PANEL COMPONENTS



- 33 VIDEO INPUT TERMINAL: DVD, VCR, CDG, BGM
- 34 VIDEO 1, 2 & 3 OUTPUT TERMINAL:
RCA composite video signal out: 1Vp-p/75 ohms
- 35 REAR MICROPHONE 4 & 5 INPUT JACKS
- 36 AUDIO OUTPUT TERMINAL
It bypasses the signal. Any adjustments in the front panel would not affect the signal out.
- 37 AUDIO INPUT TERMINAL:
DVD, VCR, CDG, BGM
- 38 SOUND EFFECT DEVICE SEND
Enable connection to reverb unit, equalizer and other assisting sound sources. Please do not remove the connector pin.
- 39 SOUND EFFECT DEVICE RETURN
Enable connection to Reverberation unit, equalizer and other assisting sound sources. Please do not remove the connector pin.
- 40 RCA CONNECTOR SIGNAL OUT FOR RECORD
- 41 RCA CONNECTOR OUT TO BRIDGE AMPLIFIER
- 42 SUBWOOFER OUTPUT TERMINAL
This is a bass signal out to the powered subwoofer.
- 43 MIC/VOCAL OUTPUT TERMINAL
This is a vocal signal out to scoring system. This function is designed for KTV business.
- 44 SMART FAN
It automatically turns on when the temperature reaches 60 degrees Fahrenheit. Therefore, if the fan is not on, it does not mean that it is not working. It has a built-in sensor to measure the temperature.
- 45 SPEAKER A & B (LEFT CHANNEL) OUTPUT
Use bigger woofer for Speaker A and smaller woofer for Speaker B for special effects on Karaoke singing.
- 46 SPEAKER A & B (RIGHT CHANNEL) OUTPUT
Use bigger woofer for Speaker A and smaller woofer for Speaker B for special effects on Karaoke singing.
- 47 AC OUTLETS
This unit is equipped with two UNSWITCHED AC OUTLETS for connecting the power cords of other components to this unit. (Max. 100W) The power to these outlets is not controlled with this unit's POWER switch. They will continuously supply power to any component connected to them.
- 48 CONNECT THIS TO 120V 60Hz AC WITH THE SUPPLIED POWER CORD

METHODS OF SPEAKER CONNECTION

1. INSERT TYPE



Either banana plug or insert type can be used to connect the unit to speakers. Be sure to connect red (+) to red (+) and black (-) to black (-). Otherwise, the sound output would be 180° out of phase and distorted.

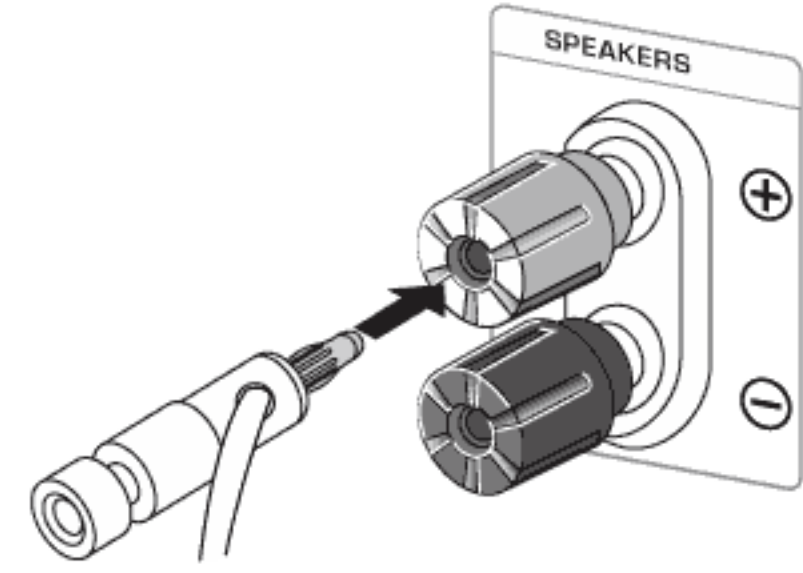
Follow these steps if you are inserting the wire directly into the speaker terminal.

1. Strip off the vinyl covering and twist the tip of the wire core.
2. Loosen the knob and insert the wire core into the terminal hole.
3. Tighten the knob to fix the wire core in place.

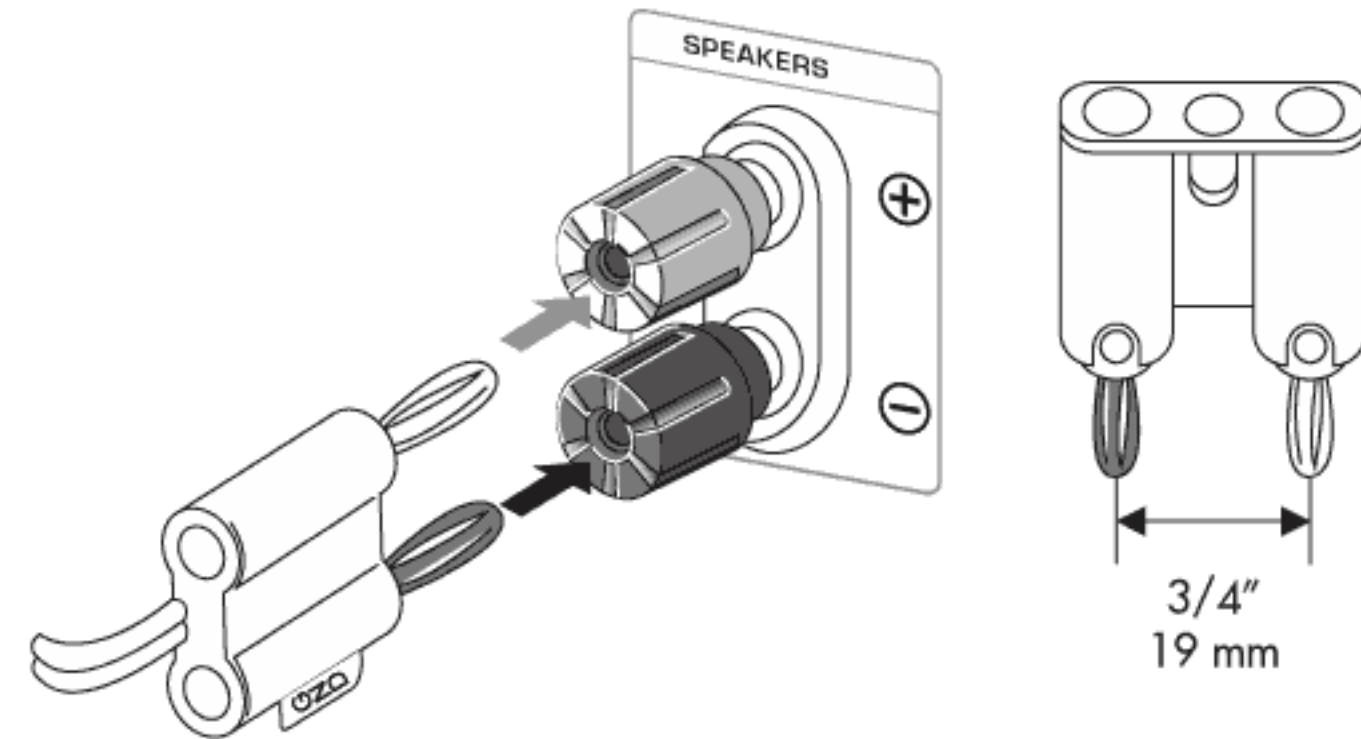
Do not allow the wire core to protrude or touch other terminals or wires.

If the cores of differing wires touch, damage may result to your components.

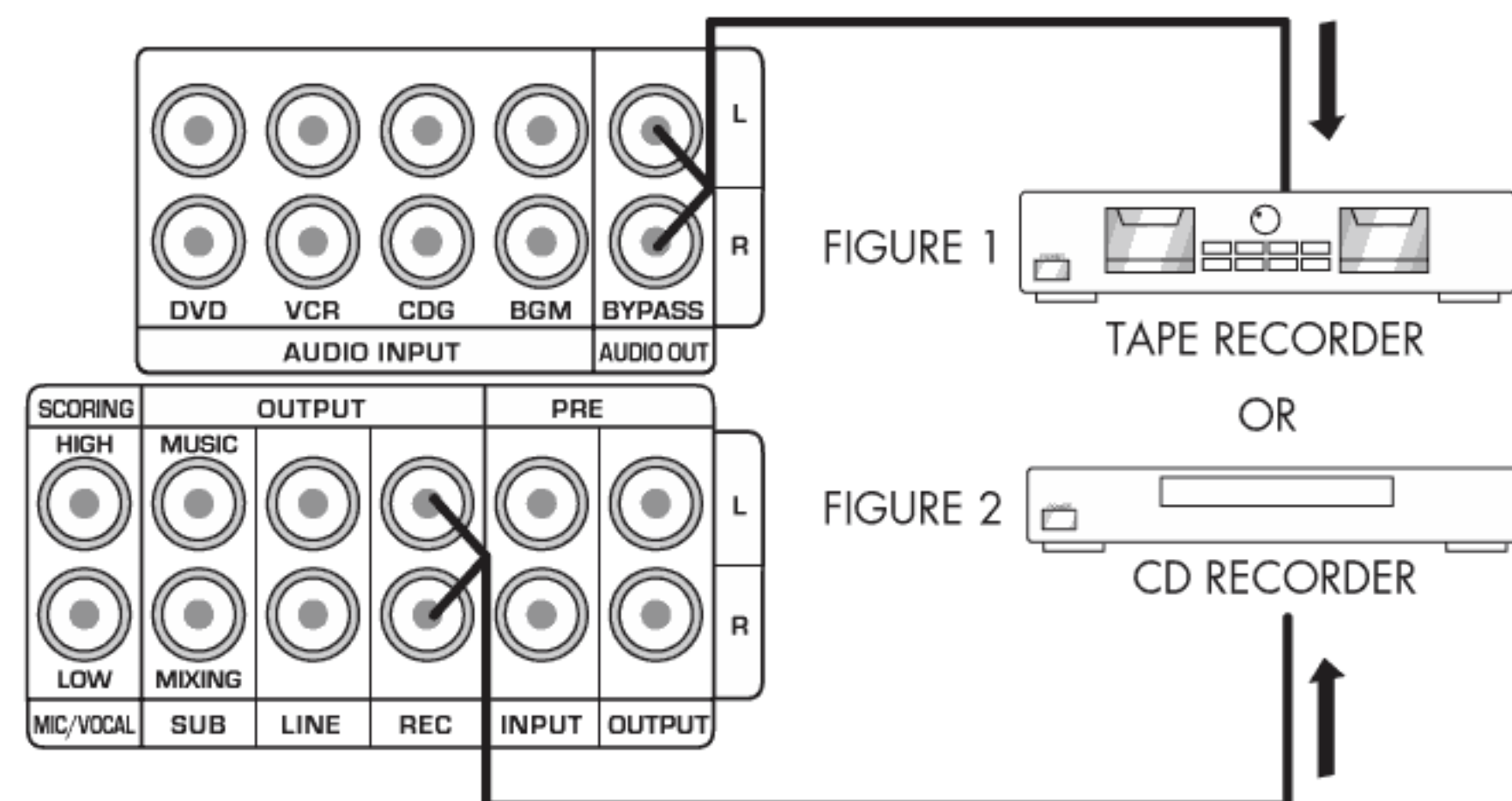
2. SINGLE BANANA PLUG TYPE



3. DOUBLE BANANA PLUG TYPE MDP BANANA PREMIUM



HOW TO CONNECT RECORDER

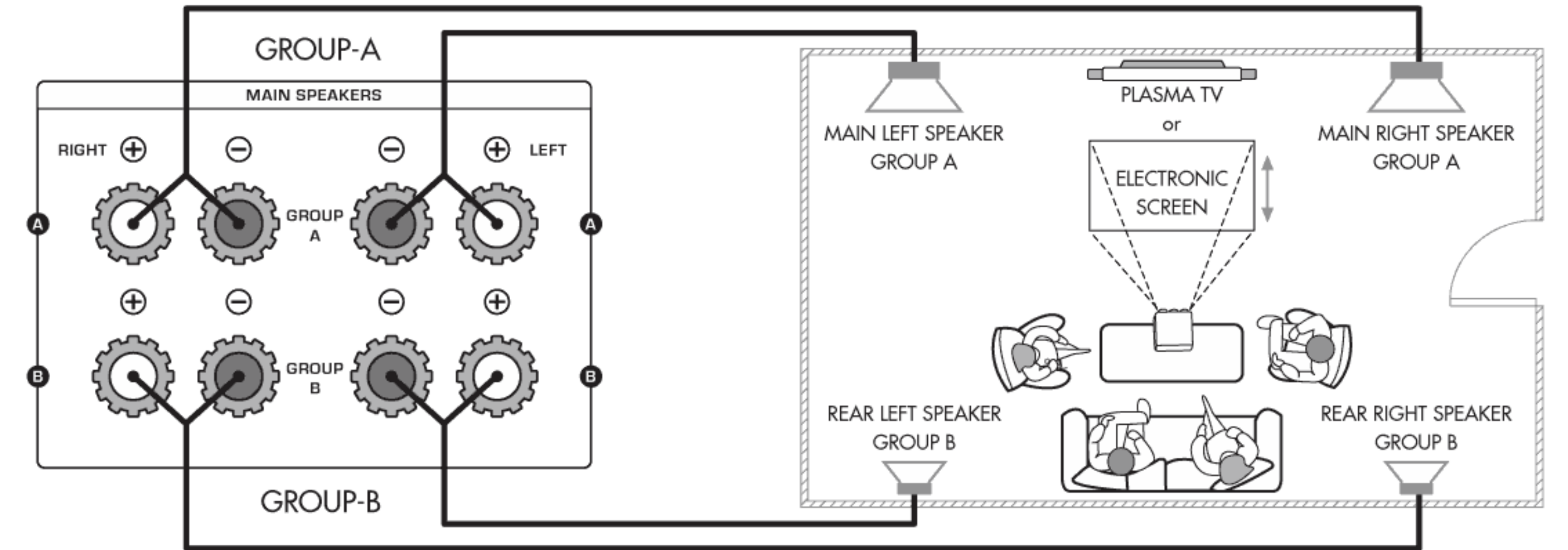


It bypasses the signal. Any adjustments in the front panel would not affect the signal out for recording. If you want to record with effects, you need to connect to REC, which is the LINE OUT for adjustments on effects. Please refer to the figure 2 as below.

REC is the recording out. Any effects adjustment (such as microphone echo and music key control, etc.) in the front panel would affect the audio signal for recording.

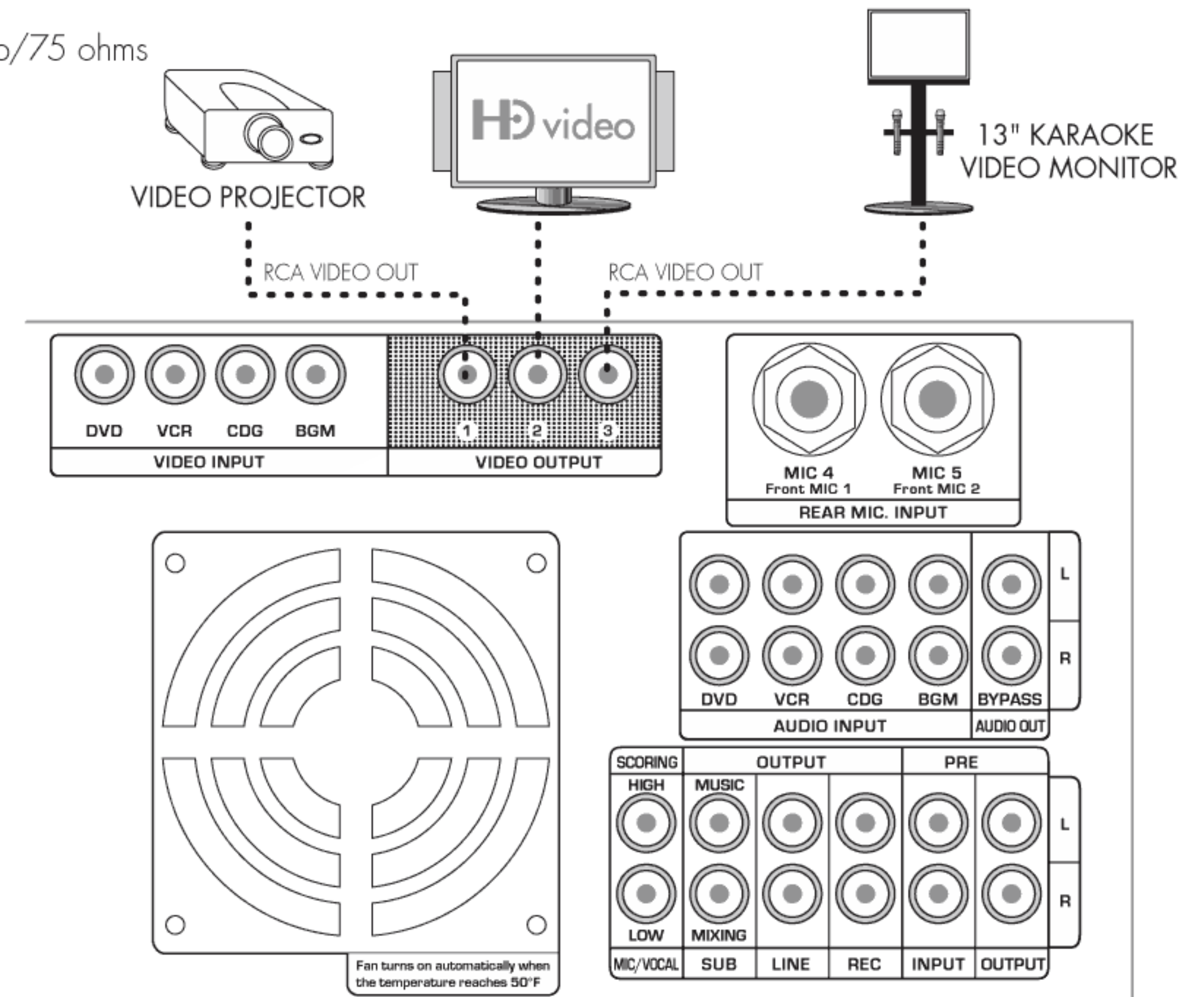
HOW TO CONNECT SPEAKER

DX-388 G2 is capable of driving four main speakers, which are grouped in Group A and Group B. We recommend you using different size of speakers for Group A (10-inch woofer or bigger) and Group B (6-inch woofer). Under this arrangement, Group A speaker can produce greater bass music output while Group B speaker can produce clear vocal. The mixing of music and vocal is important to produce quality sound for singing. Therefore, the audience can feel different effects from Group A and Group B speakers. You can also adjust the vocal on both speakers, or you can adjust the vocal in either speaker by adjusting the balance.



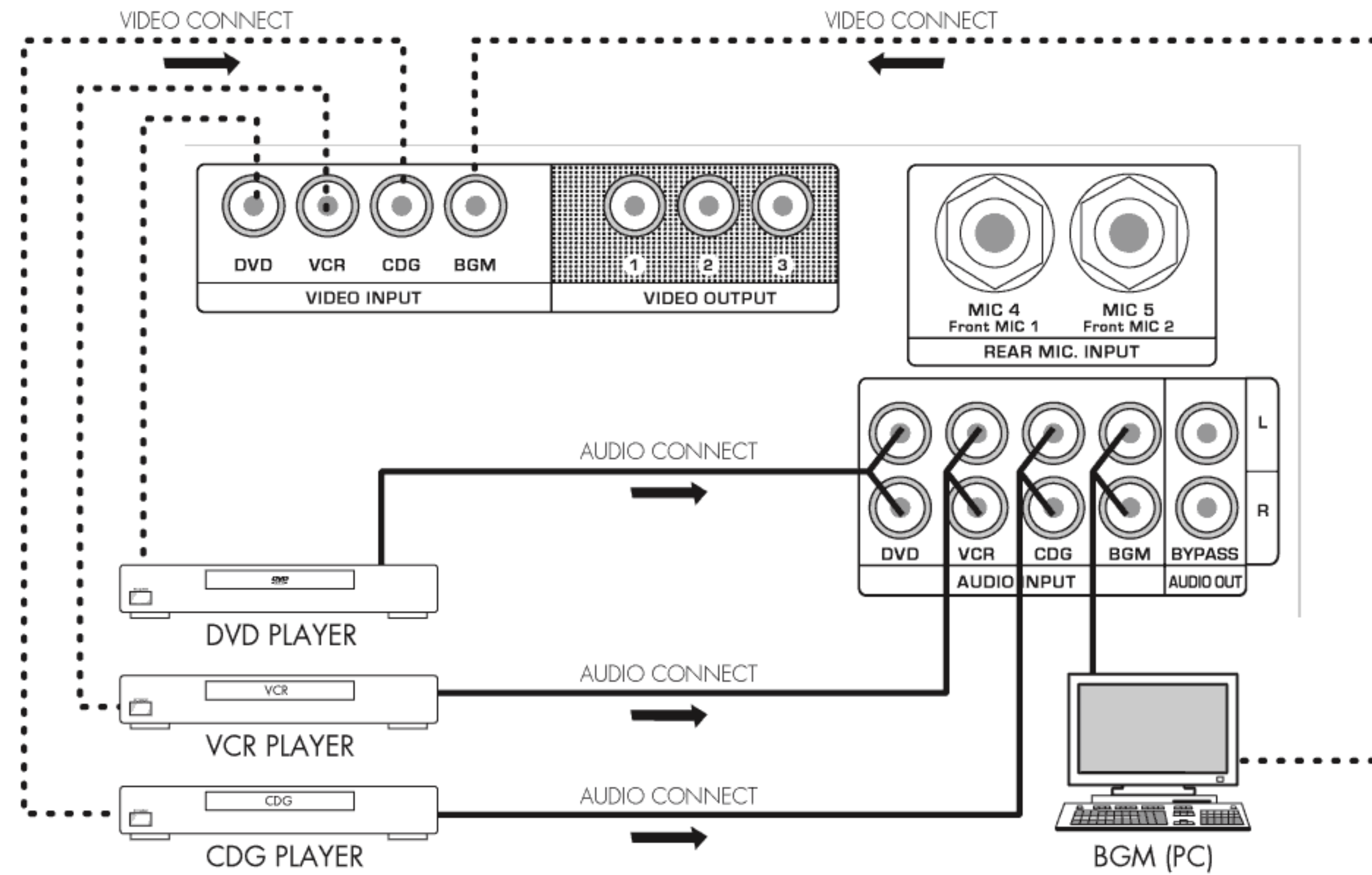
HOW TO CONNECT VIDEO MONITOR

Video Out: 1Vp-p/75 ohms



HOW TO CONNECT MUSIC A.V. SOURCE

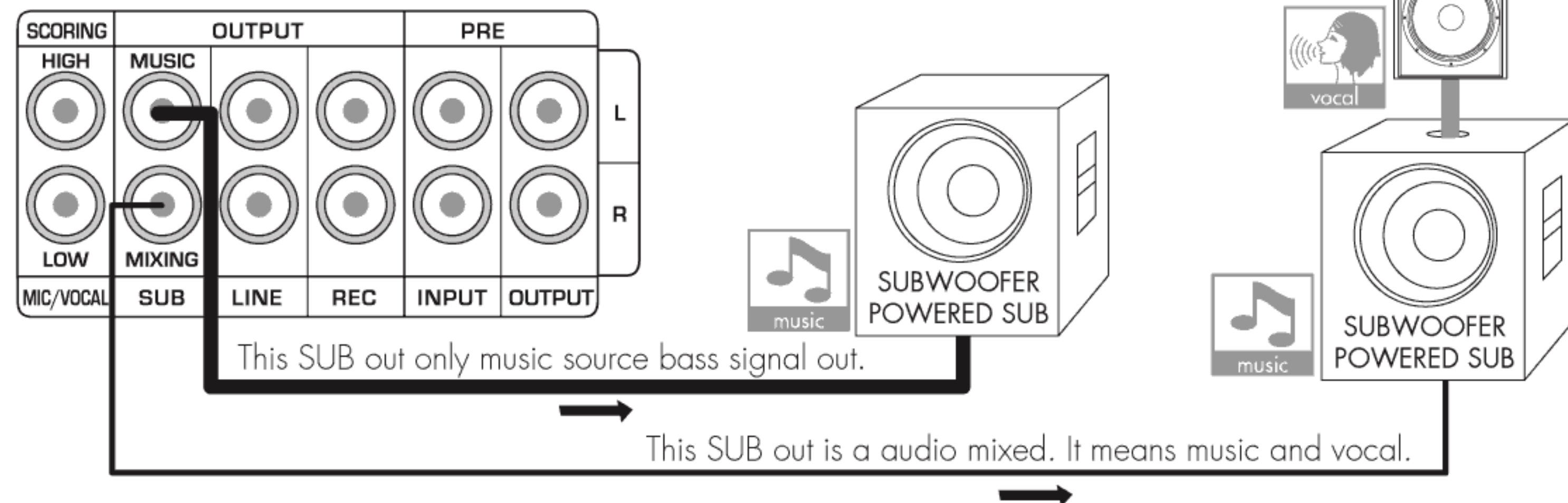
Before you connect the source (i.e. DVD, VCR, CDG and BGM Karaoke), you should turn off the power for all machine, so it would protect you from electric shock and prevent the equipment from damage. To connect the AV source, the first thing to do is to connect the audio source to the amplifier input. Then, you can connect the video source. Please refer to the following diagram. To ensure high quality sound and video, we recommend using high quality cables. To learn more about high quality cable, please refer to page 30.



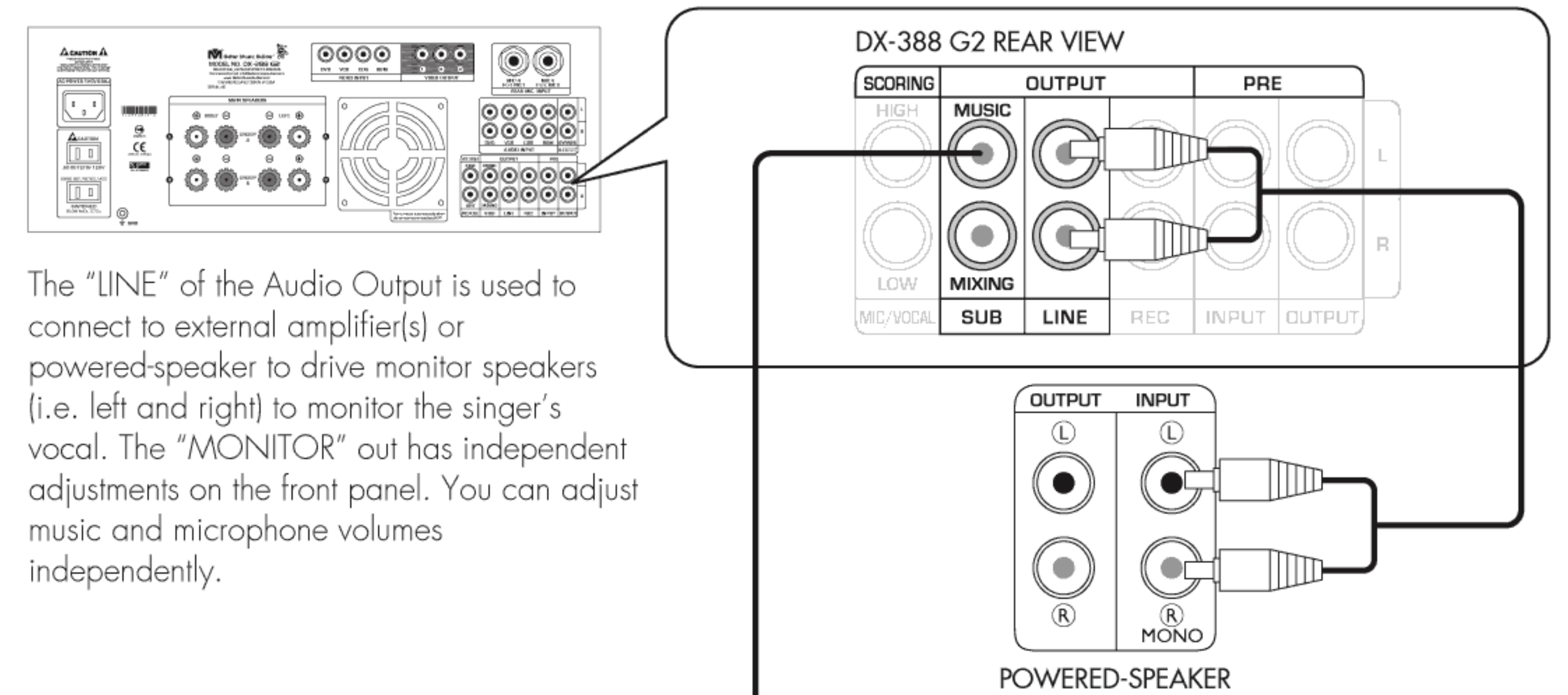
HOW TO CONNECT SUB WOOFER

SUB OUT has two different signal outputs: MUSIC on the top and MIXING on the bottom. MUSIC can create music bass in low frequency, but it cannot affect the vocal. It is good for Karaoke singing.

MIXING can create both music and vocal with bass in low frequency. You have choice for different bass effects on MUSIC and MIXING.



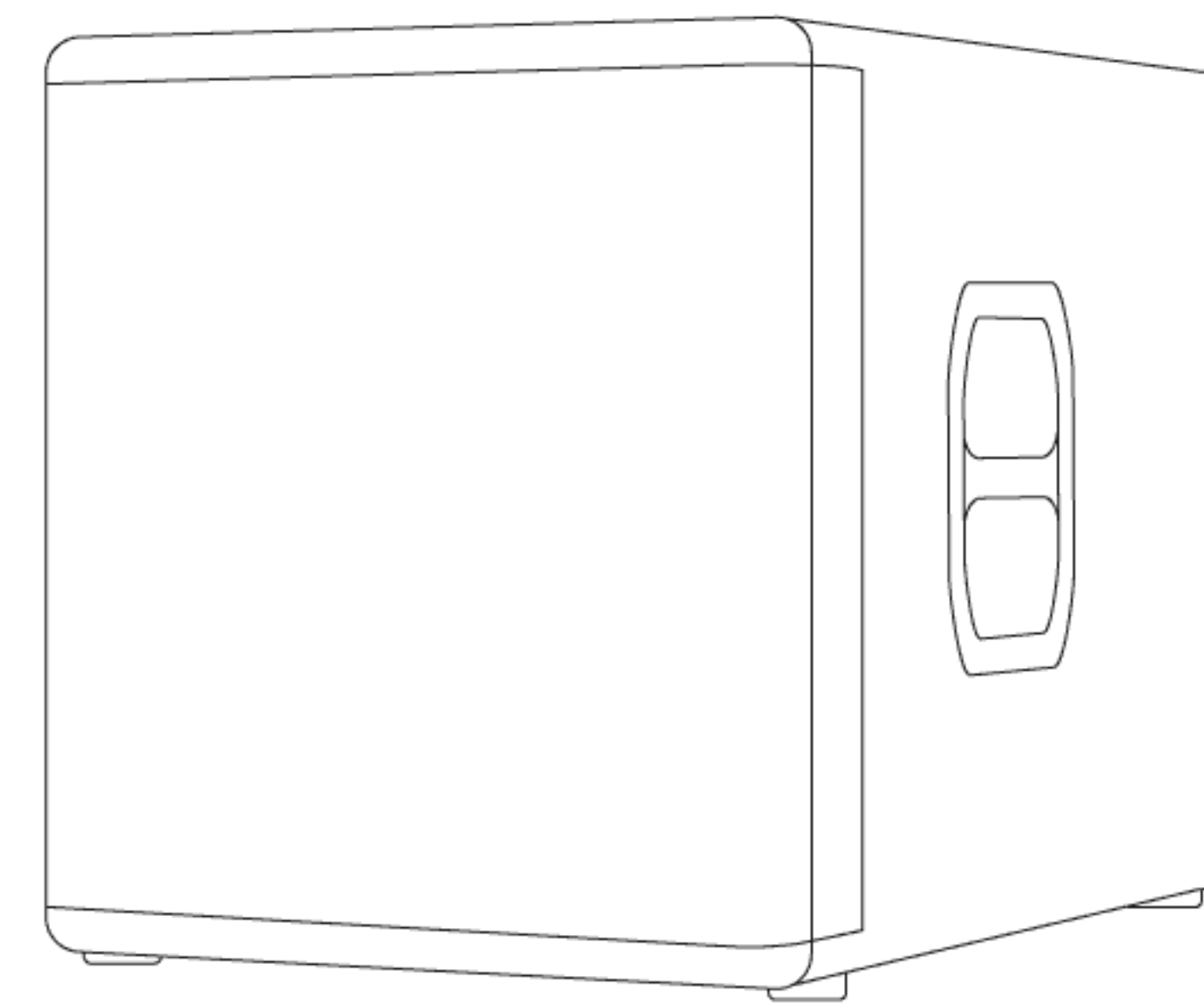
AUDIO LINE OUTPUT



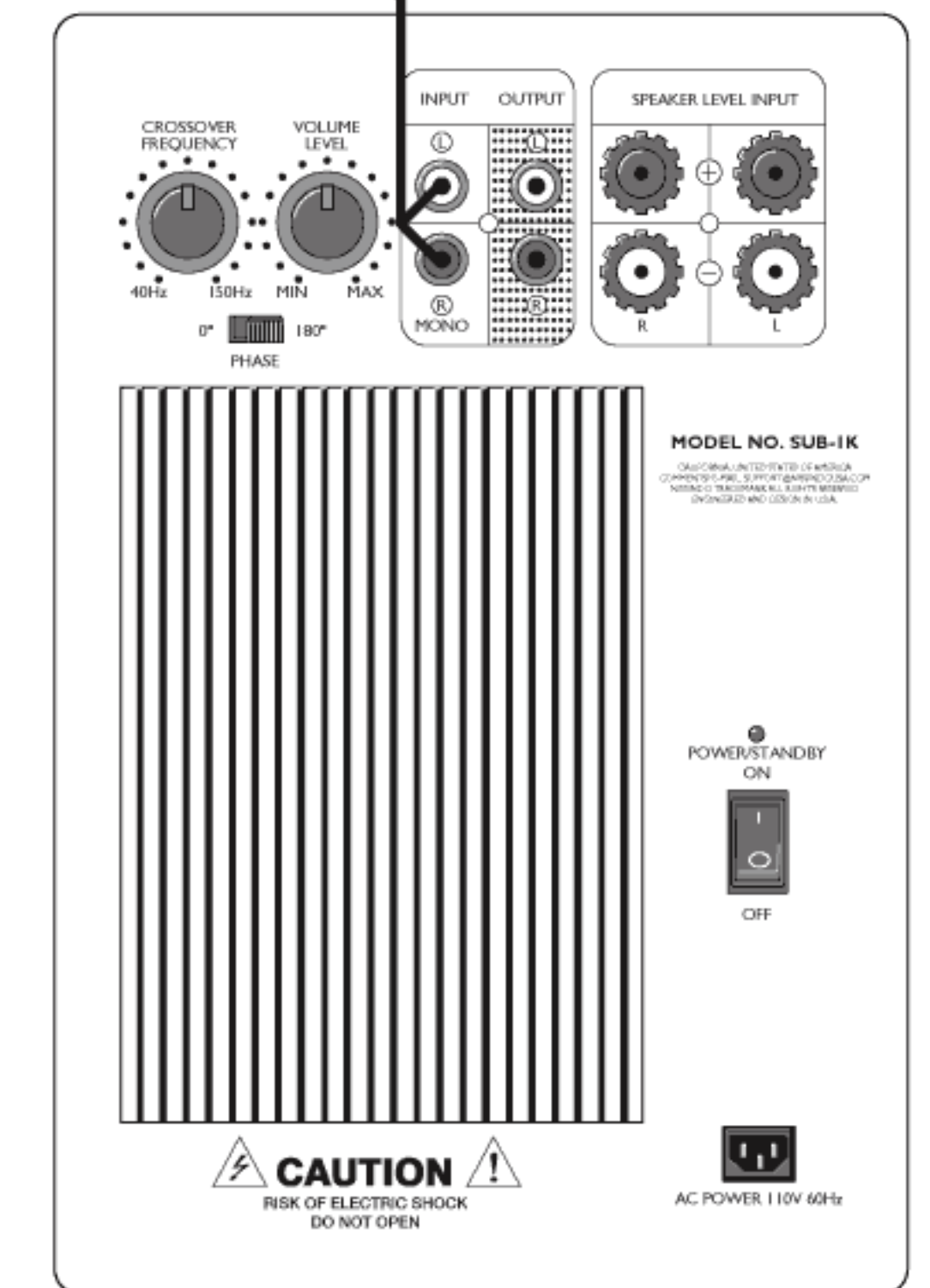
The "LINE" of the Audio Output is used to connect to external amplifier(s) or powered-speaker to drive monitor speakers (i.e. left and right) to monitor the singer's vocal. The "MONITOR" out has independent adjustments on the front panel. You can adjust music and microphone volumes independently.

SUB OUT TO STEREO

The "SUB" of the Audio Output is used to connect to powered-subwoofer(s) for low frequency such as "boom boom" sounds or any other external amplifier to drive subwoofer(s). The volume level of "SUB" can be adjusted independently at the front panel.



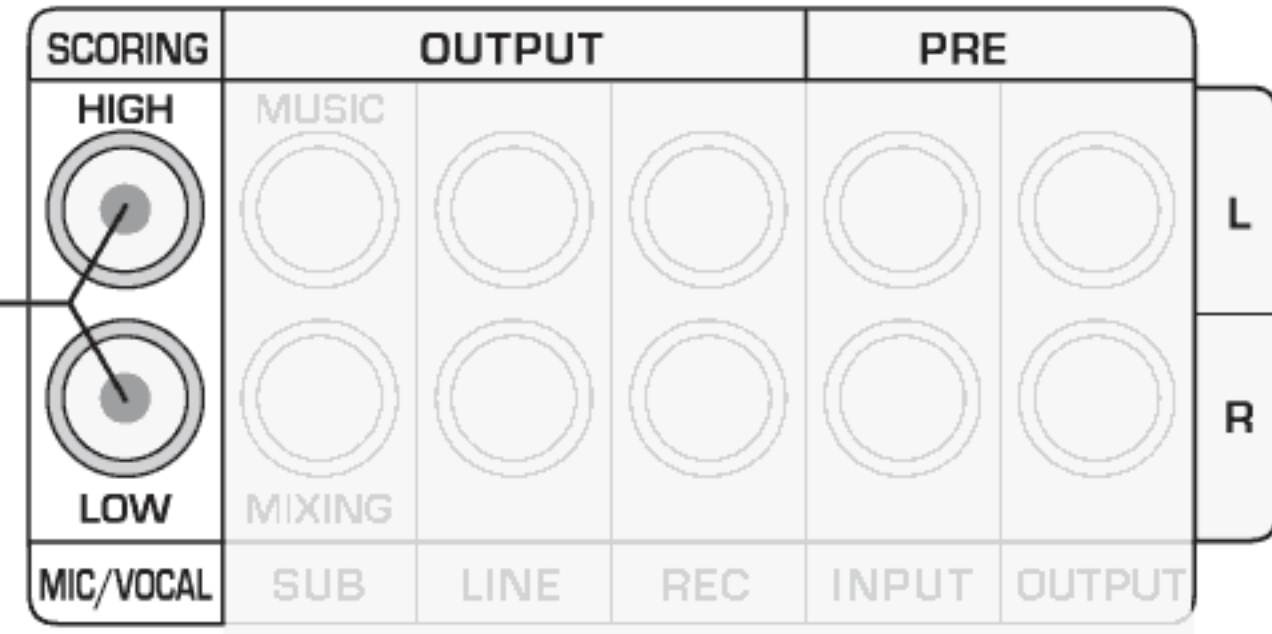
SUBWOOFER FRONT VIEW



SUBWOOFER REAR VIEW

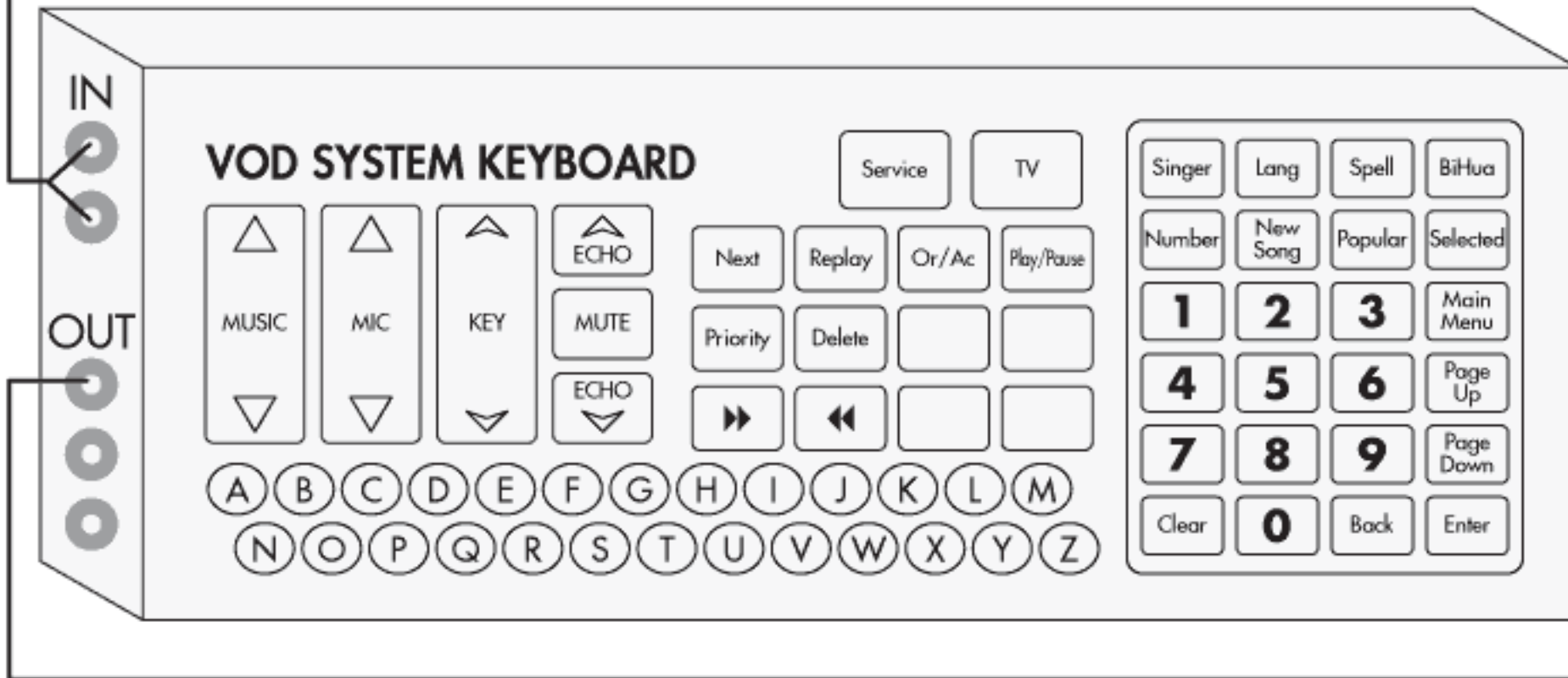
HOW TO CONNECT SCORING SYSTEM

DX-388 G2 REAR VIEW

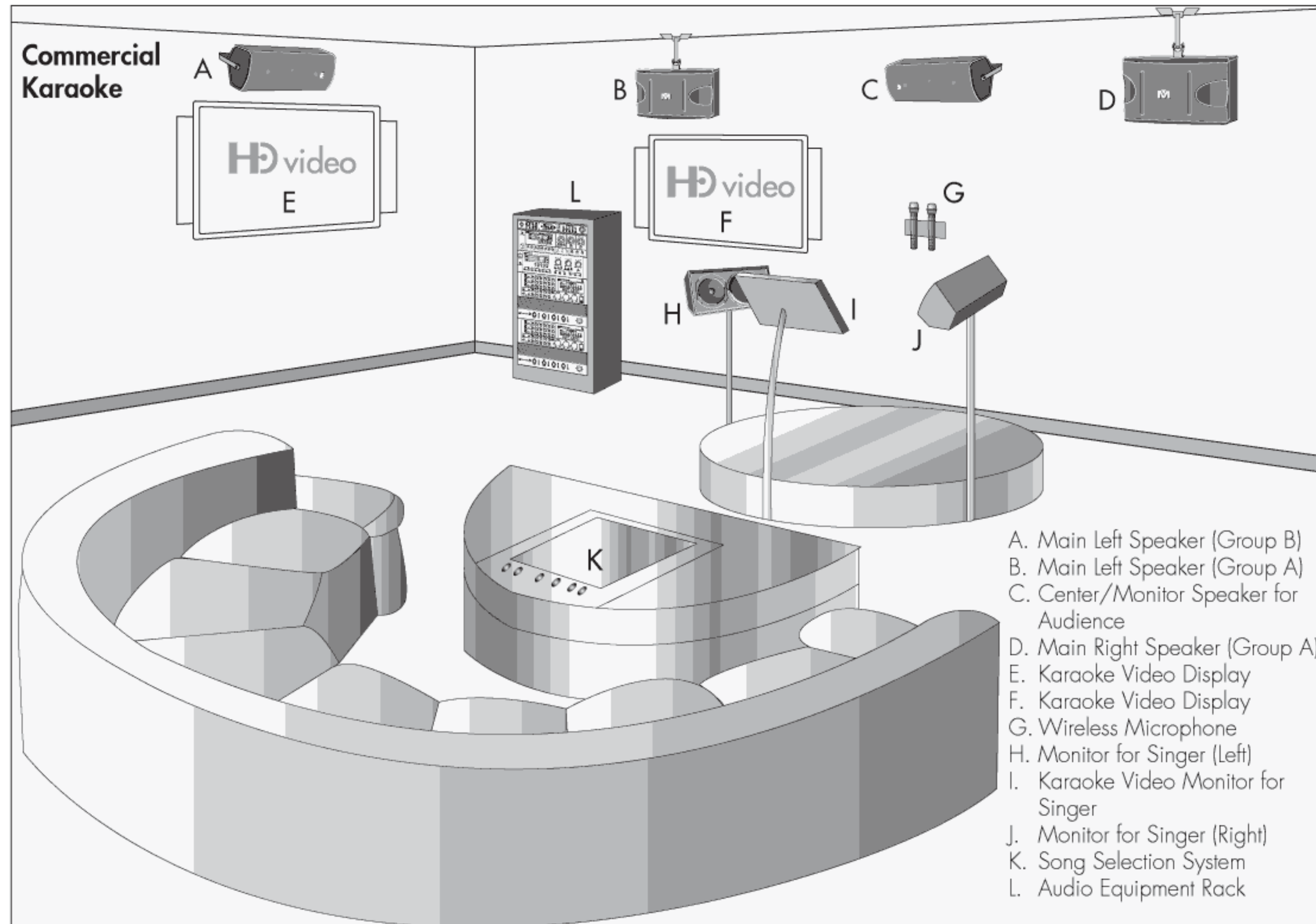


Scoring Hook Up: DX-388 G2 has the scoring system design for Karaoke singing, especially for commercial use such as KTV. Both HIGH and LOW signals are connected to the IN of VOD System Keyboard or PC device. The VIDEO OUT is connected directly to the monitor. When you sing, the scoring system would automatically activate.

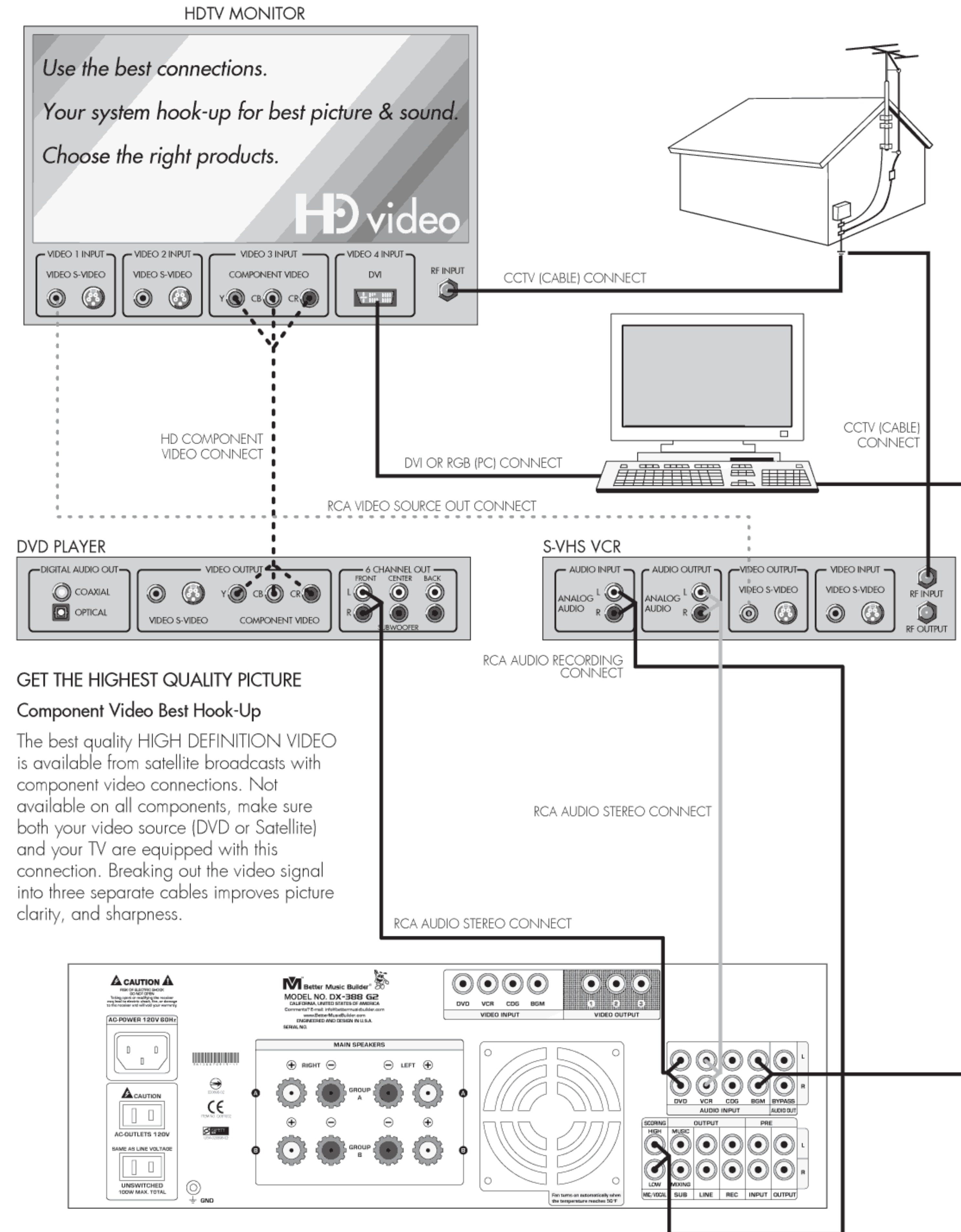
Home Karaoke: If you use a magic microphone, you don't need to hook up the scoring system. Because most of the magic microphone has the built-in scoring system. However, the scoring system would not work with VCD and DVD players. If you need the scoring function with VCD and DVD players, you need a VOD system.



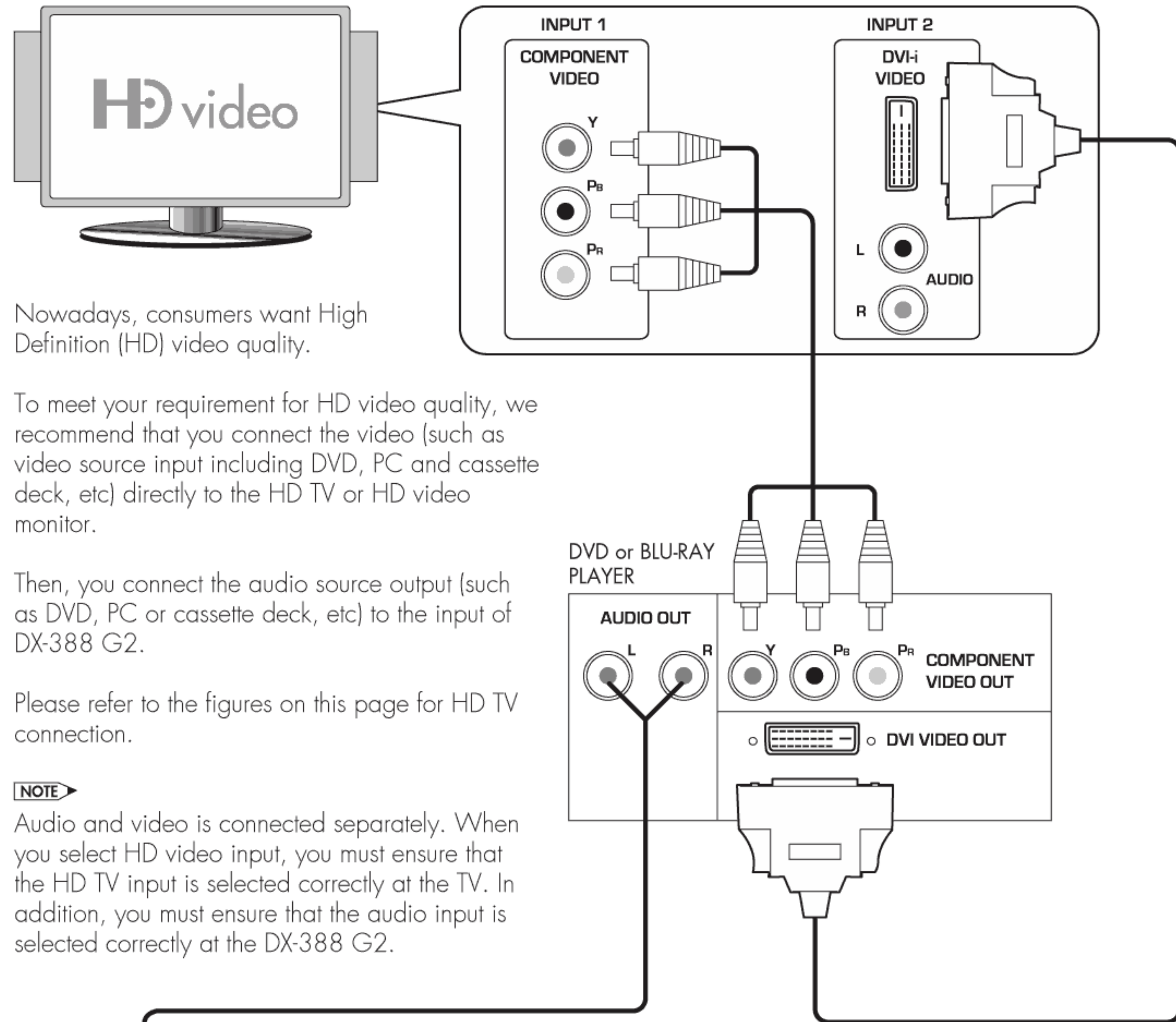
➔ To video monitor for scoring system



HOW TO CONNECT HIGH DEFINITION VIDEO



HOW TO CONNECT HIGH DEFINITION VIDEO



Nowadays, consumers want High Definition (HD) video quality.

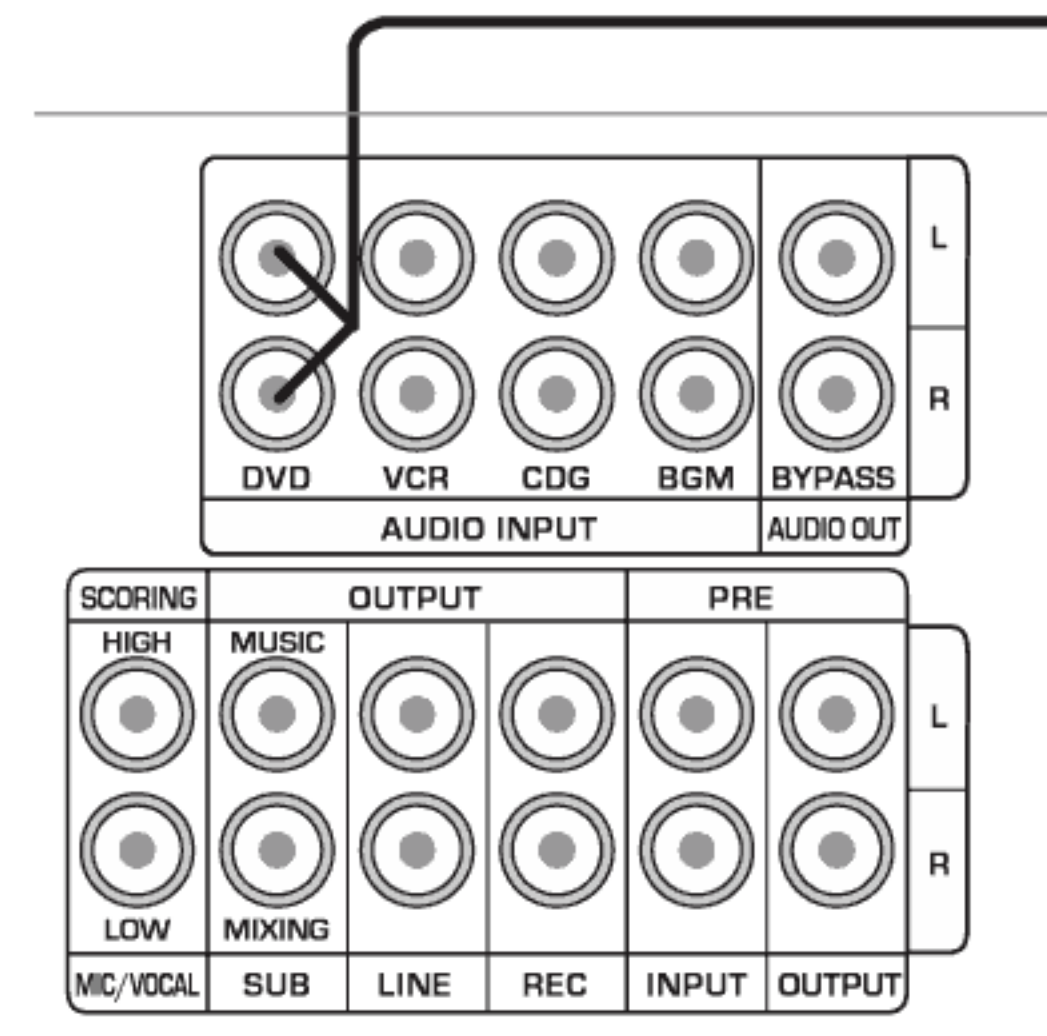
To meet your requirement for HD video quality, we recommend that you connect the video (such as video source input including DVD, PC and cassette deck, etc) directly to the HD TV or HD video monitor.

Then, you connect the audio source output (such as DVD, PC or cassette deck, etc) to the input of DX-388 G2.

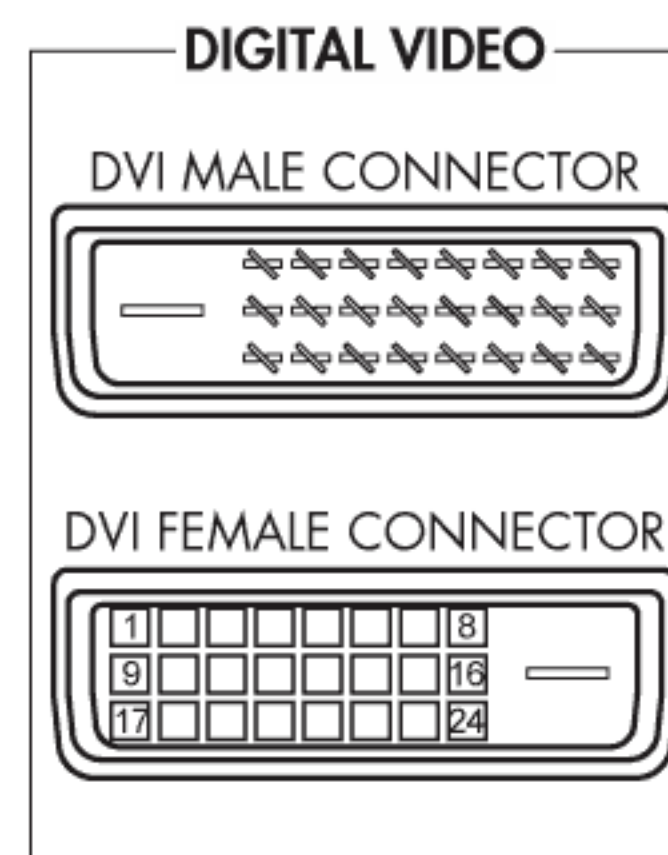
Please refer to the figures on this page for HD TV connection.

NOTE

Audio and video is connected separately. When you select HD video input, you must ensure that the HD TV input is selected correctly at the TV. In addition, you must ensure that the audio input is selected correctly at the DX-388 G2.



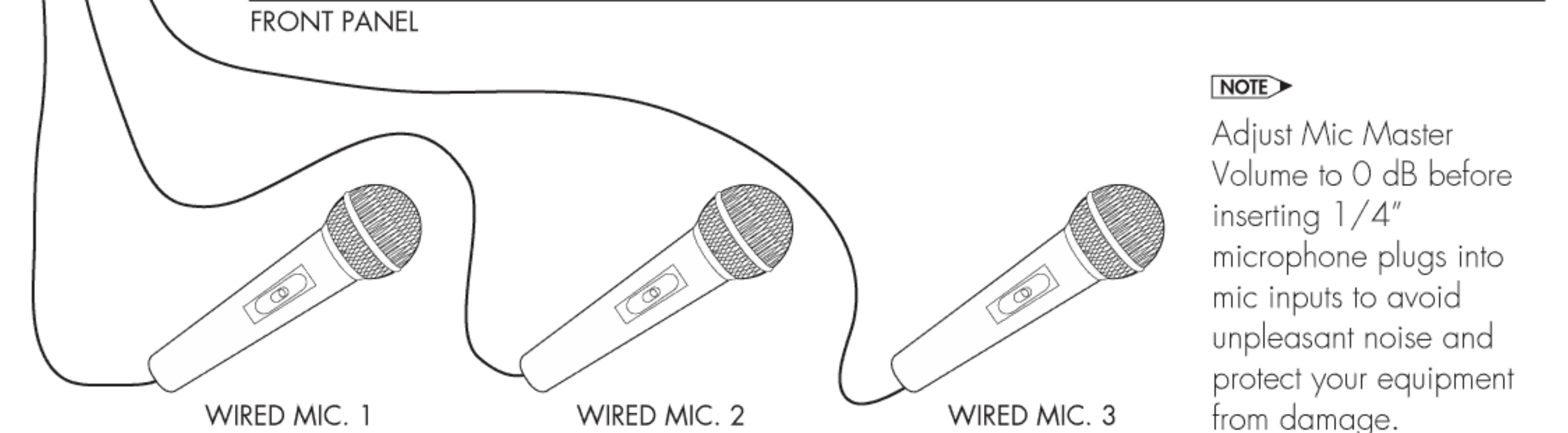
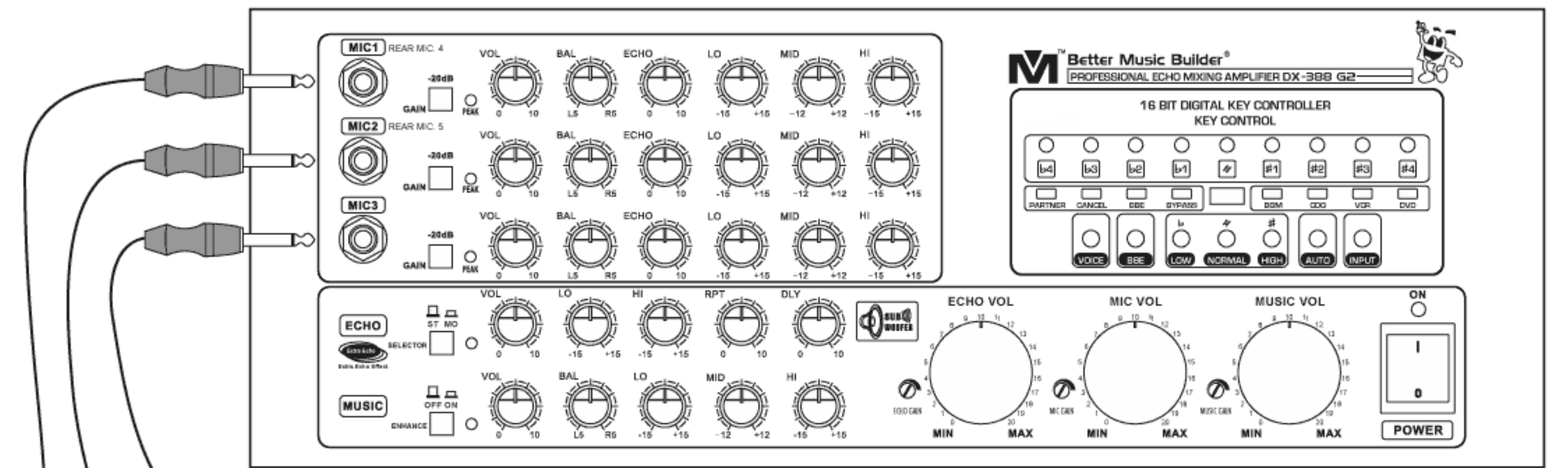
DX-388 G2 REAR VIEW



DVI and HDMI connection

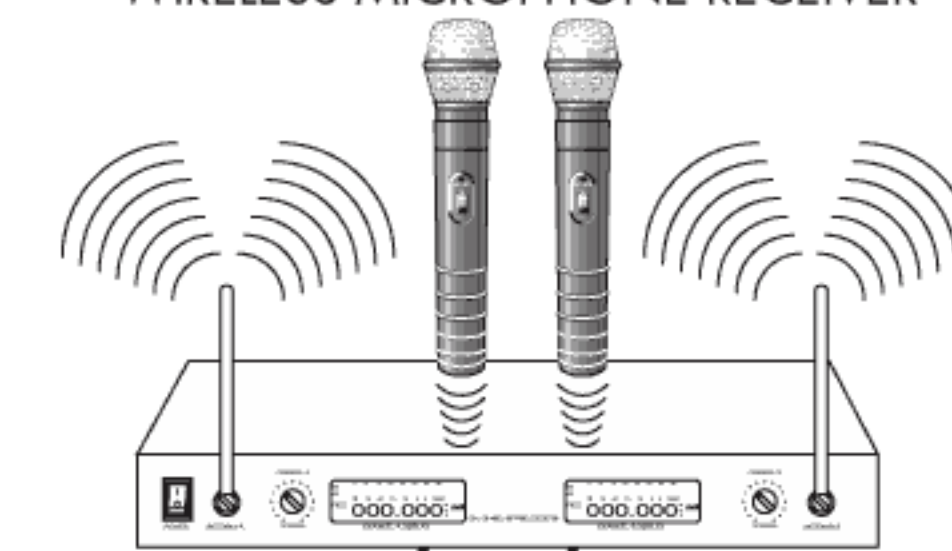
Digital Video for high performance, ideal for connecting digital video signal source to digital signal processing distribution and display.

HOW TO CONNECT MICROPHONE



NOTE
Adjust Mic Master Volume to 0 dB before inserting 1/4" microphone plugs into mic inputs to avoid unpleasant noise and protect your equipment from damage.

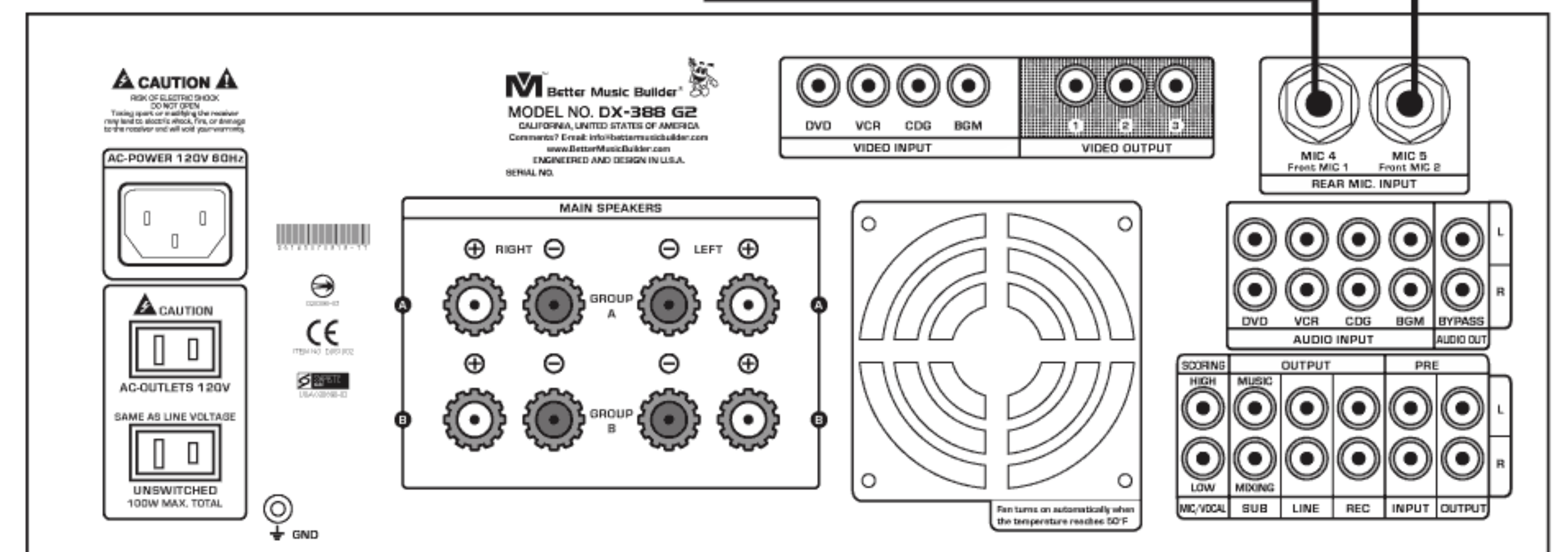
WIRELESS MICROPHONE RECEIVER



This jack is for connecting microphones to input 1 and rear MIC. Input 4. They are at the same terminal. Rear input is designed for wireless microphone.

connect to MIC. receiver (REAR MIC. 4)

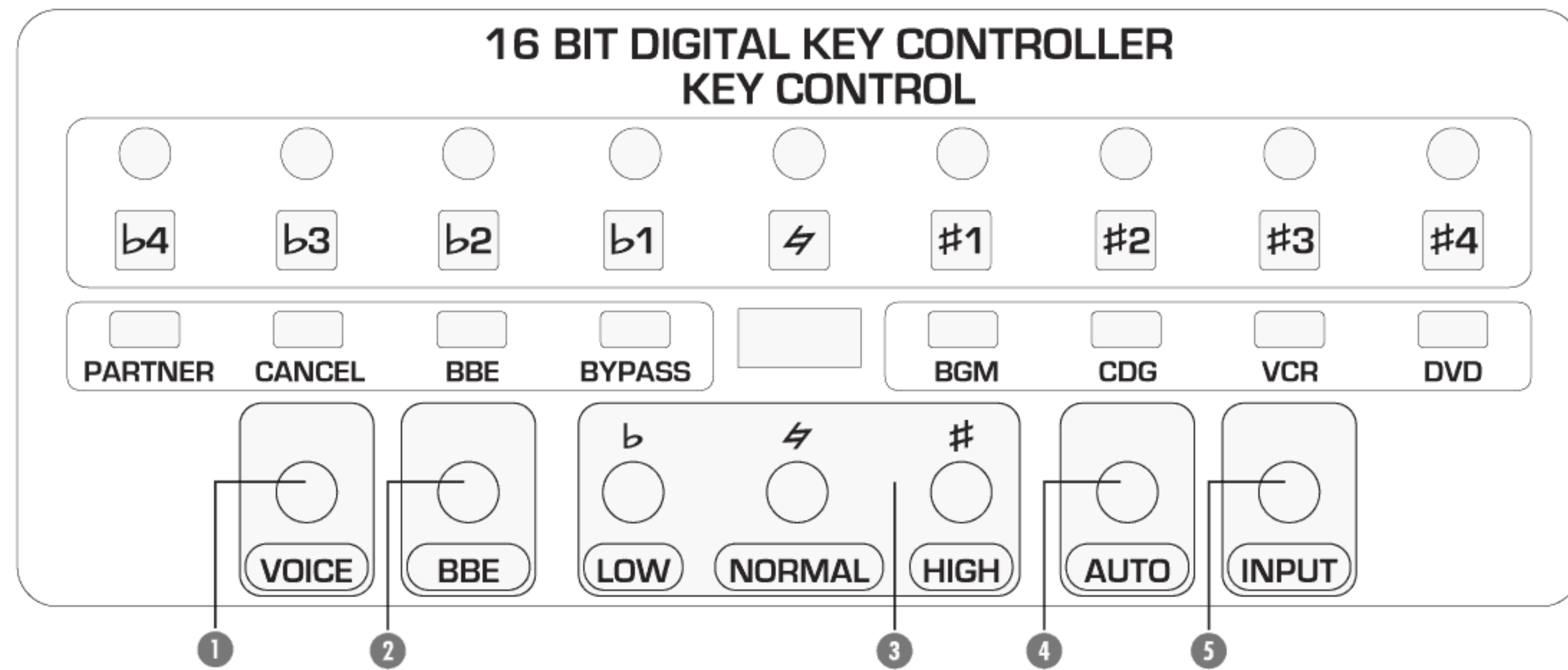
This jack is for connecting microphones to input 2 and rear MIC. Input 5. They are at the same terminal. Rear input is designed for wireless microphone.



REAR PANEL

OPERATING INSTRUCTIONS

MUSIC KEY CONTROL INPUT SELECT



1 VOICE CANCELLATION CONTROL BUTTON

PARTNER and CANCEL buttons are controlled under the VOICE CANCELLATION button. When you press the PARTNER button, it is normal that the vocal may come from either the left or right speaker depending on the decoding format of the Karaoke disk.

After pressing the CANCEL button, the original vocal is supposed to be cancelled. If the vocal is still there, it is possible that the original audio decoding in your disk is locked and your disk is not working. Please refer to page 23.

2 BBE and BYPASS MODE CONTROL BUTTON

BBE is responsible for special audio effects. To keep the original signal for recording, use BYPASS.

3 KEY CONTROL: ♭ LOW, ⚡ NATURAL, # HIGH

Key control button controls the music speed.

4 AUTO INPUT SELECTOR CONTROL BUTTON

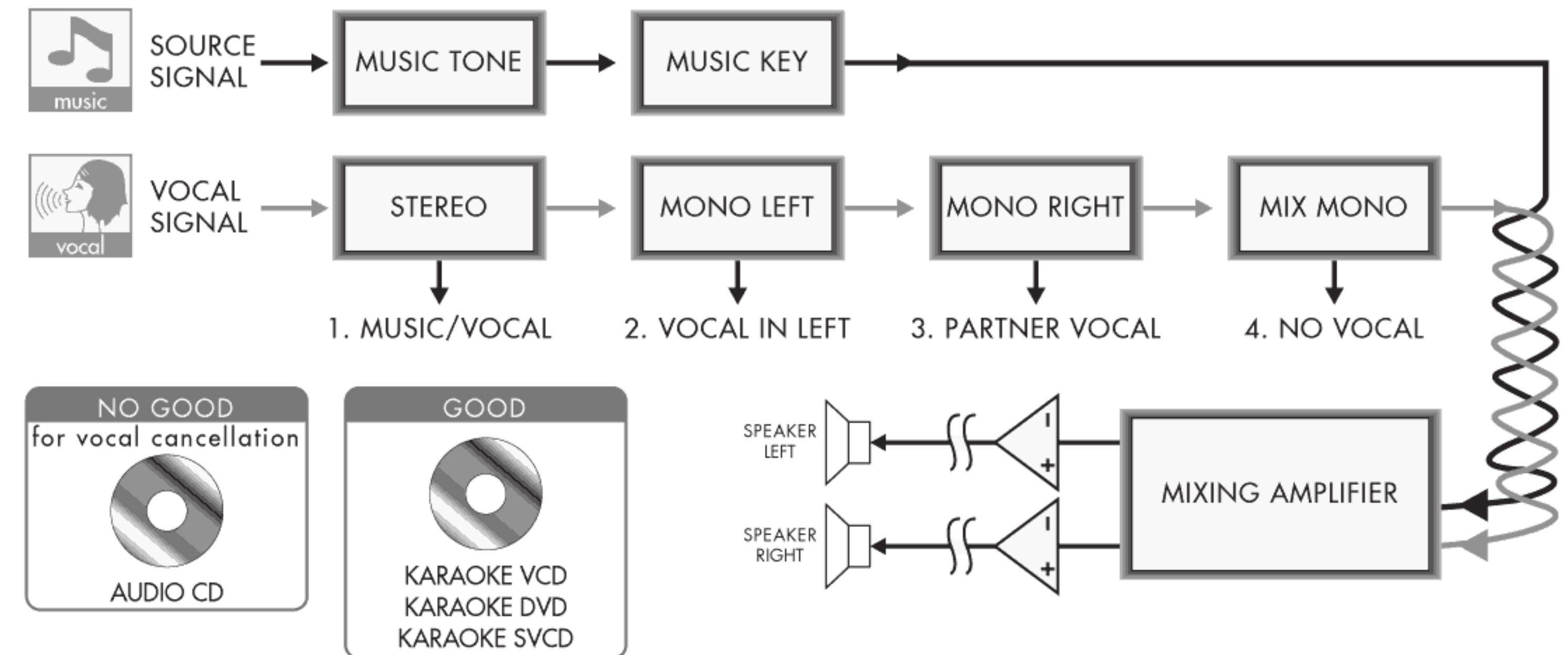
Input selection for DVD, VCR, CDG and BGM automatically. DVD is the first priority input for selection.

5 INPUT SELECT BUTTON: DVD, VCR, CDG, BGM

DVD is the first priority input. BGM (Background Music) is designed for KTV business. Both manual and auto input for selection are allowed.

VOICE BUTTON FUNCTION

The main function of the "VOICE" button is to cancel the vocal signal for singing. However, this function operates differently with audio CDG, VCD and DVD, etc. It is because at present there is no standard decoding format for recording Karaoke songs in the disks mentioned above. In general, there are four soundtracks that can be recorded in the disk: Stereo, Mono Left, for Mono Right and Mix Stereo. Please note that the voice function does not work with compact CD at all.

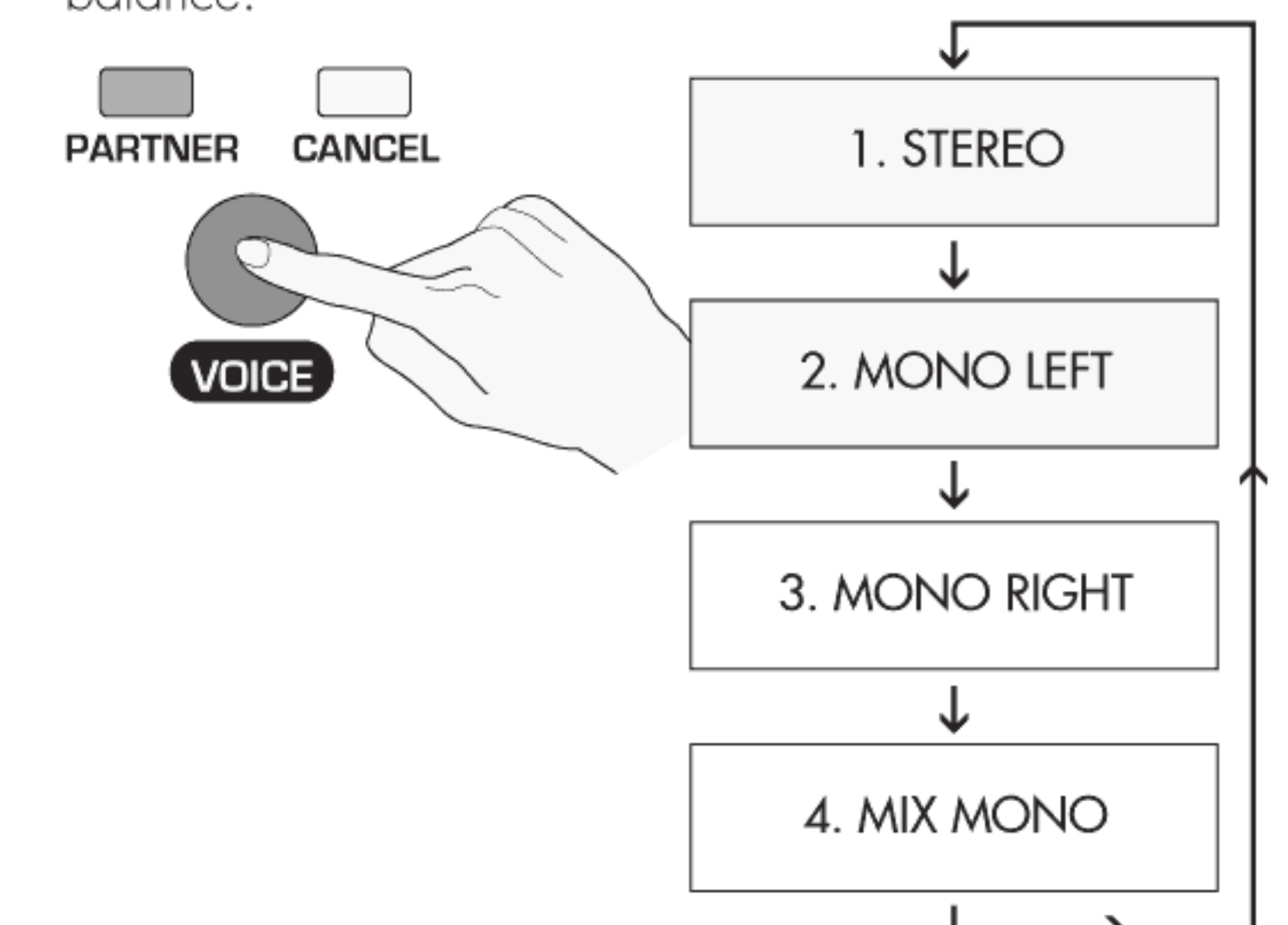


The concept of the voice function is quite similar to the languages selection for VCD and DVD movies from the disk player. For example, some movie disks have multi languages (such as Mandarin, Cantonese, Vietnamese and English, etc.) for selection. When you select a language from your DVD player, you may press one of the buttons in the remote control: Stereo, L/R Channel (Left/Right), Language or Audio Mode. Depending on the audio decoding format of the disk, you just select one of the above buttons for the language you want. Just keep on pressing different buttons until the DVD plays the language you want since each disk has a different audio decoding format. This concept also applies to DX-388 G2 for voice cancellation or partner (duet) singing.

NOTE If the "VOICE" button cannot perform the vocal cancellation and partner (duet) singing functions, it does not mean that the amplifier is not working properly. It is impossible that the original audio decoding in your disk is locked. Therefore, you need to use the remote control of your disk player to perform the vocal cancellation function or multi-language selection.

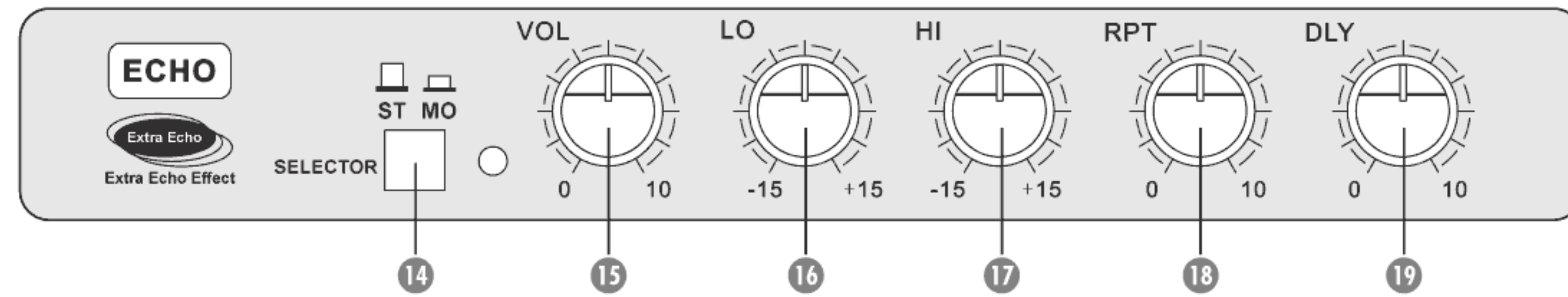
The function of the "Voice" button is to cancel the original vocal signal of the artist. When you press this "Voice" button, both the "Cancel" and "Partner" indicators will turn on. It is normal that the vocal signal may come from either the left or right speaker depending on the audio decoding format of the disk.

When the "Partner" indicator is on, the vocal of the artist may come from either left or right speaker. When you sing with the "Partner" function, your vocal may come from either left or right speaker or from both speakers at your option by adjusting the microphone balance.

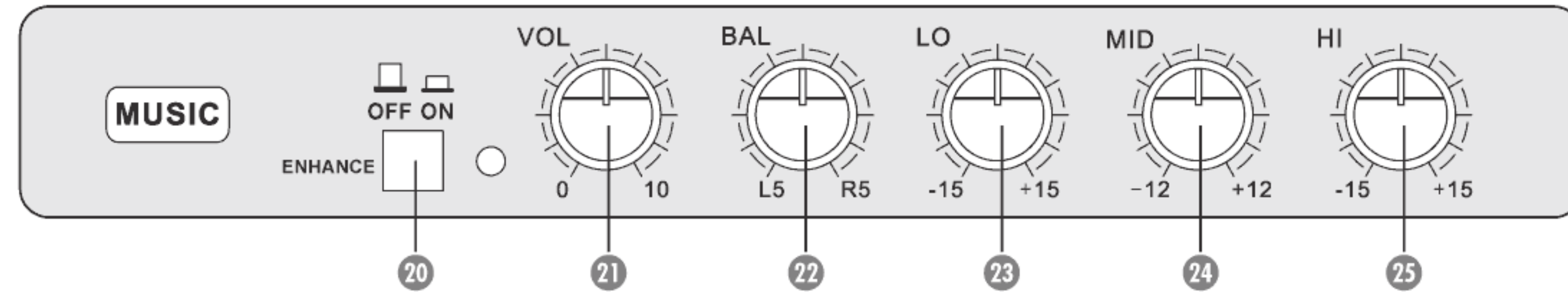


OPERATING INSTRUCTIONS

ECHO ADJUSTMENT



MUSIC TONE ADJUSTMENT



14 STEREO OR MONO SELECTOR

Adjusts the echo stereo or mono.

15 ECHO VOLUME CONTROL

Adjusts the echo effect EQ response.

16 ECHO (LO) LOW CONTROL

Adjusts the low frequency EQ response.

17 ECHO (HI) HIGH CONTROL

Adjusts the high frequency EQ response.

18 ECHO (RPT) REPEAT CONTROL

19 ECHO (DLY) DELAY CONTROL

20 ENHANCE SELECTOR

It enhances music source signal.

21 MUSIC VOLUME CONTROL

Adjusts the music volume.

22 MUSIC (BAL) BALANCE CONTROL

Adjusts the music signal for left and right.

23 MUSIC (LO) LOW CONTROL

Adjusts the low frequency EQ response.

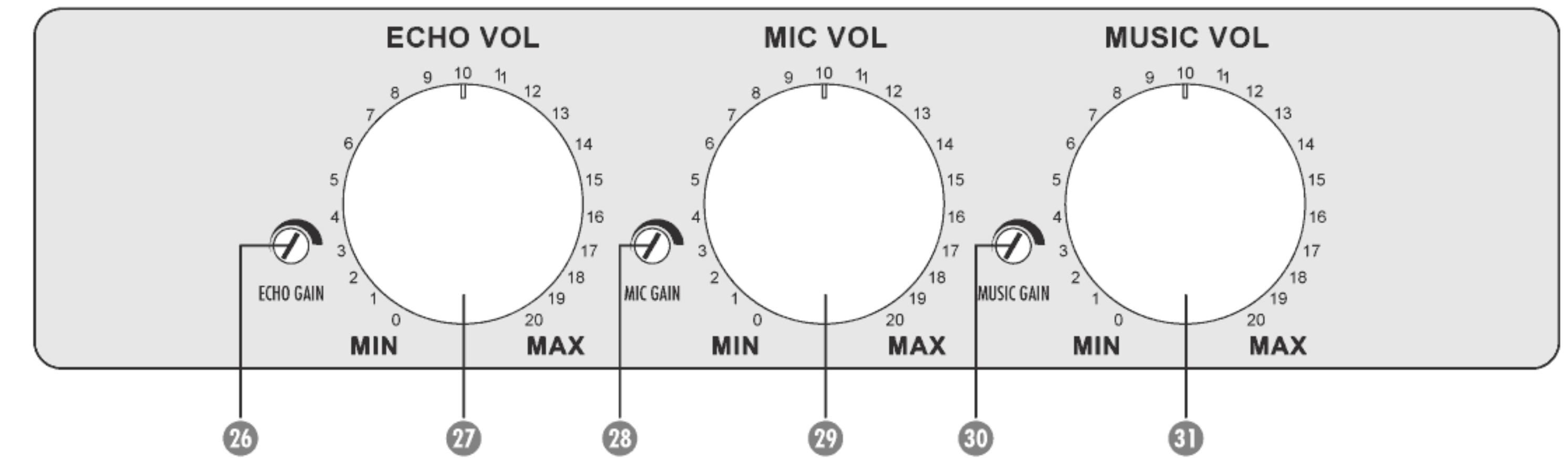
24 MUSIC (MID) MIDDLE CONTROL

Adjusts the middle frequency EQ response.

25 MUSIC (HI) HIGH CONTROL

Adjusts the high frequency EQ response.

MASTER ECHO, MICROPHONES & MUSIC VOLUME ADJUSTMENT



26 ECHO GAIN VOLUME ADJUSTMENT

ECHO output level limiter. Use a screw driver to turn ECHO GAIN to adjust the maximum output level.

27 MASTER ECHO VOLUME ADJUSTMENT

Turn ECHO VOLUME clockwise to increase and counterclockwise to decrease the echo volume level.

28 MIC. GAIN VOLUME ADJUSTMENT

Microphones output level limiter. Use a screw driver to turn MICROPHONE GAIN to adjust the maximum output level (20Hz~1.5KHz, -3dB). This feature is for limiting the output power for speaker protection.

29 MIC MASTER VOLUME ADJUSTMENT

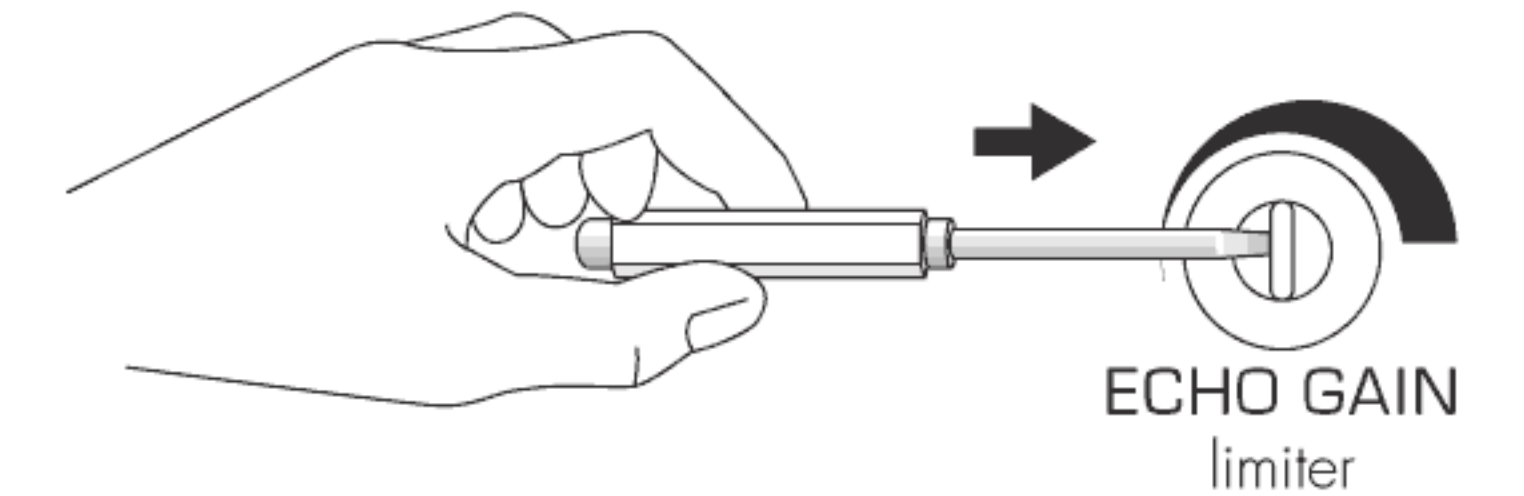
Turn MIC MASTER VOLUME clockwise to increase and counter clockwise to decrease mic. volume level.

30 MUSIC GAIN VOLUME ADJUSTMENT

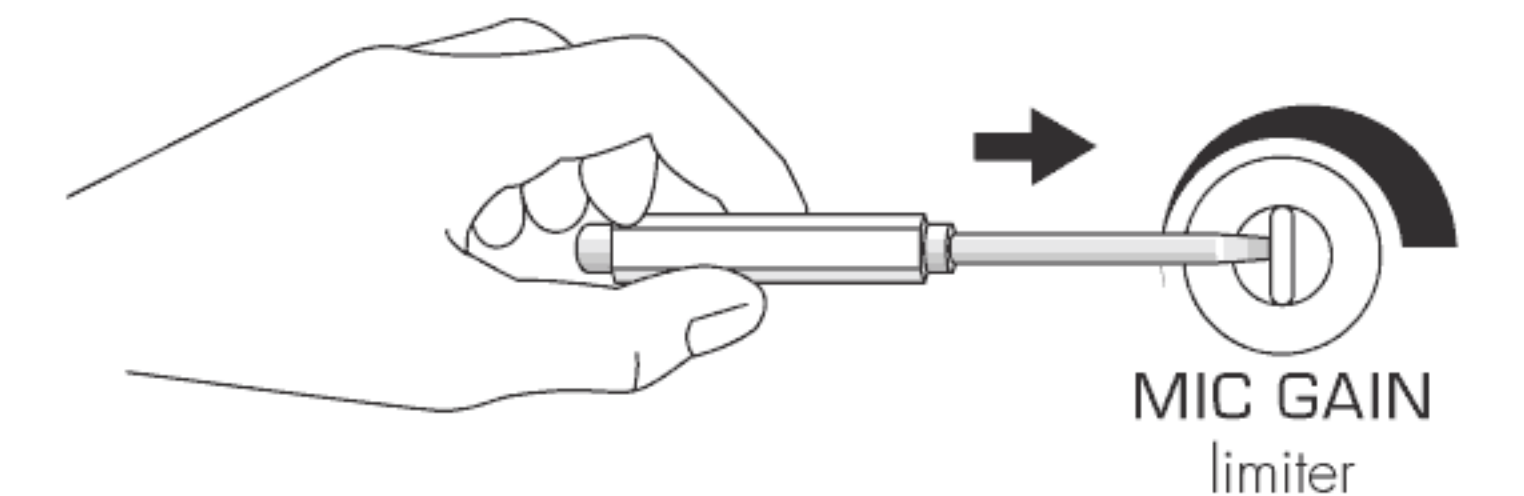
Music output level limiter. Use a screw driver to turn MUSIC GAIN to adjust the maximum output level (20Hz~20KHz, -1dB). This feature is for limiting the output power for speaker protection.

31 MUSIC VOLUME ADJUSTMENT

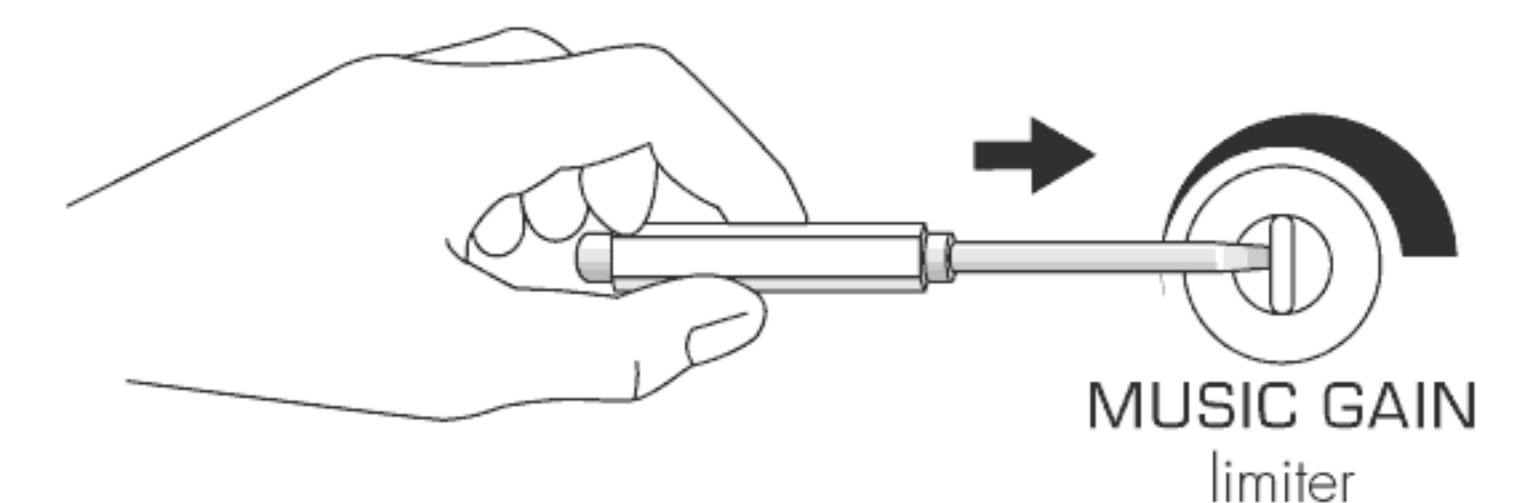
Turn MUSIC VOLUME clockwise to increase and counterclockwise to decrease the music volume level.



ECHO GAIN is a limiter for all microphone echo level. Its function is to reduce feedback from the microphone.



MICROPHONE GAIN is a limiter for microphone level. Its function is to protect your audio equipment from burning because of turning the master microphone volume too high.



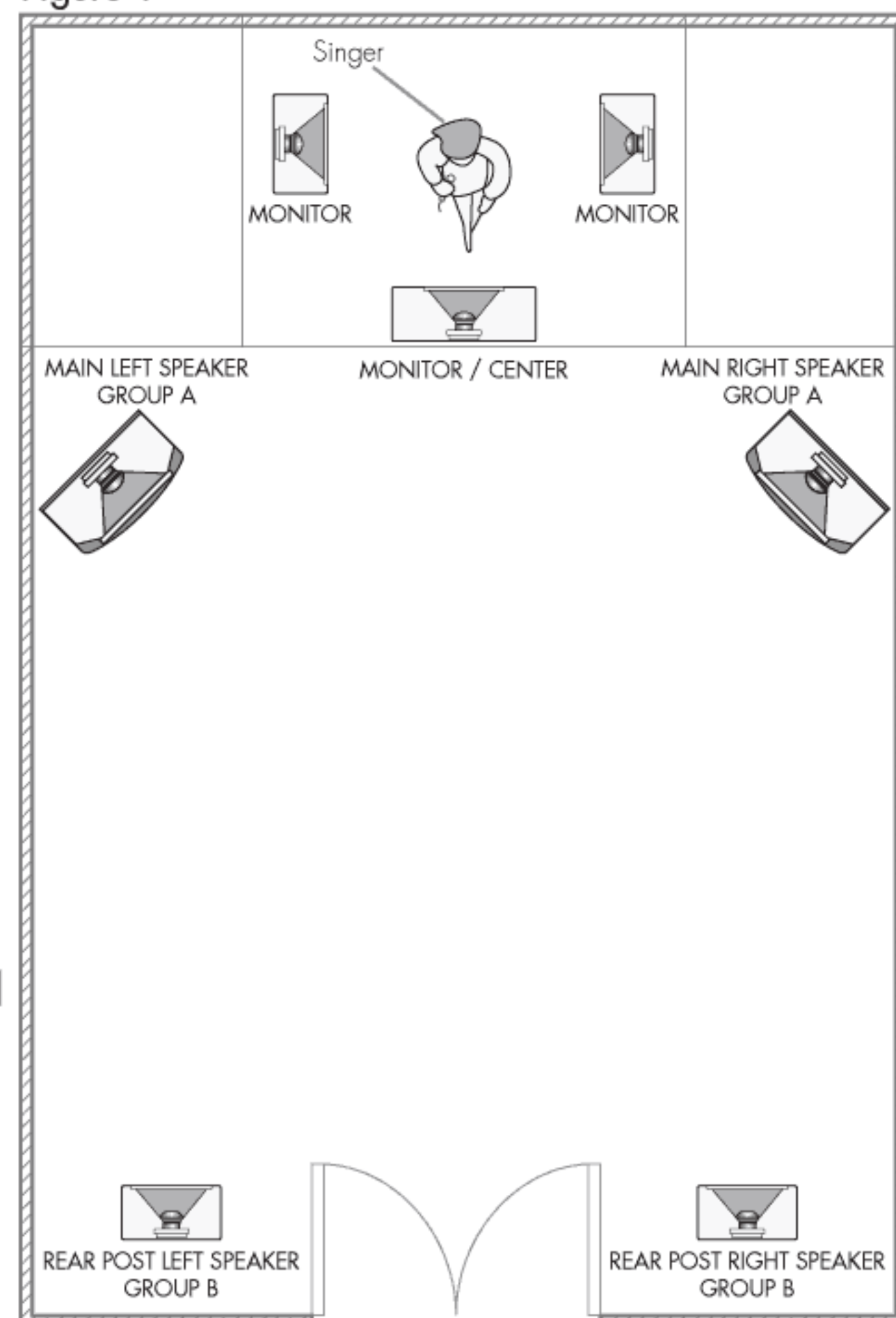
MUSIC GAIN is a limiter for music level. Its function is to protect your audio equipment from burning because of turning the master music volume too high.

COMMERCIAL APPLICATION

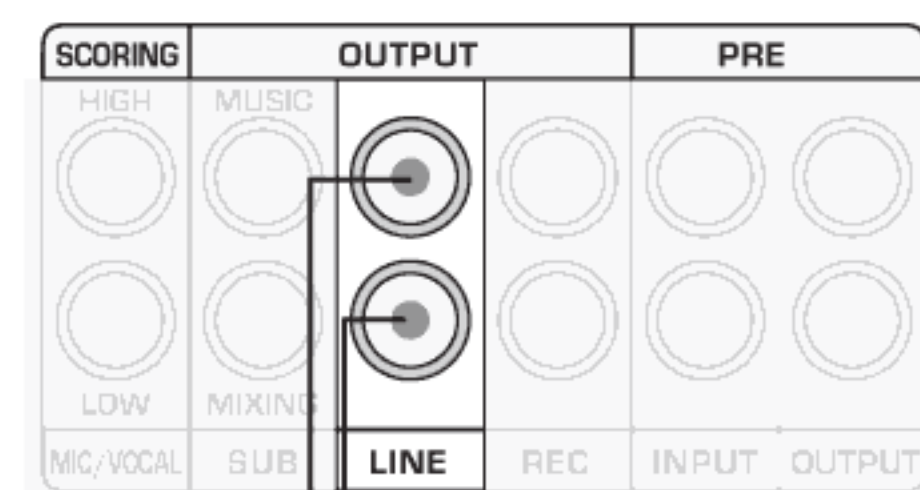
For commercial or large space setup, you may need two power amplifiers. The main amplifier is to monitor singing and the auxiliary amplifier is for audience. Please refer to the following diagram for hookup.

If you want to set up the DX-388 G2 inside an auditorium or a commercial business of 2,000 square feet or more, we recommend you using an external power amplifier for output. In this case, you connect the "Audio Out" of DX-388 G2 to a power amplifier and a speaker system (with a 12-inch woofer) with power rating of at least 1,000 watts.

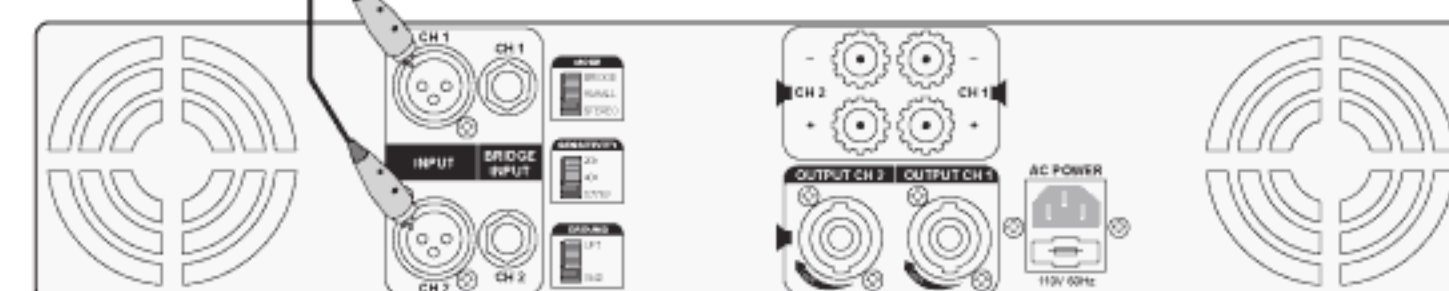
Figure 1



DX-388 G2 REAR VIEW

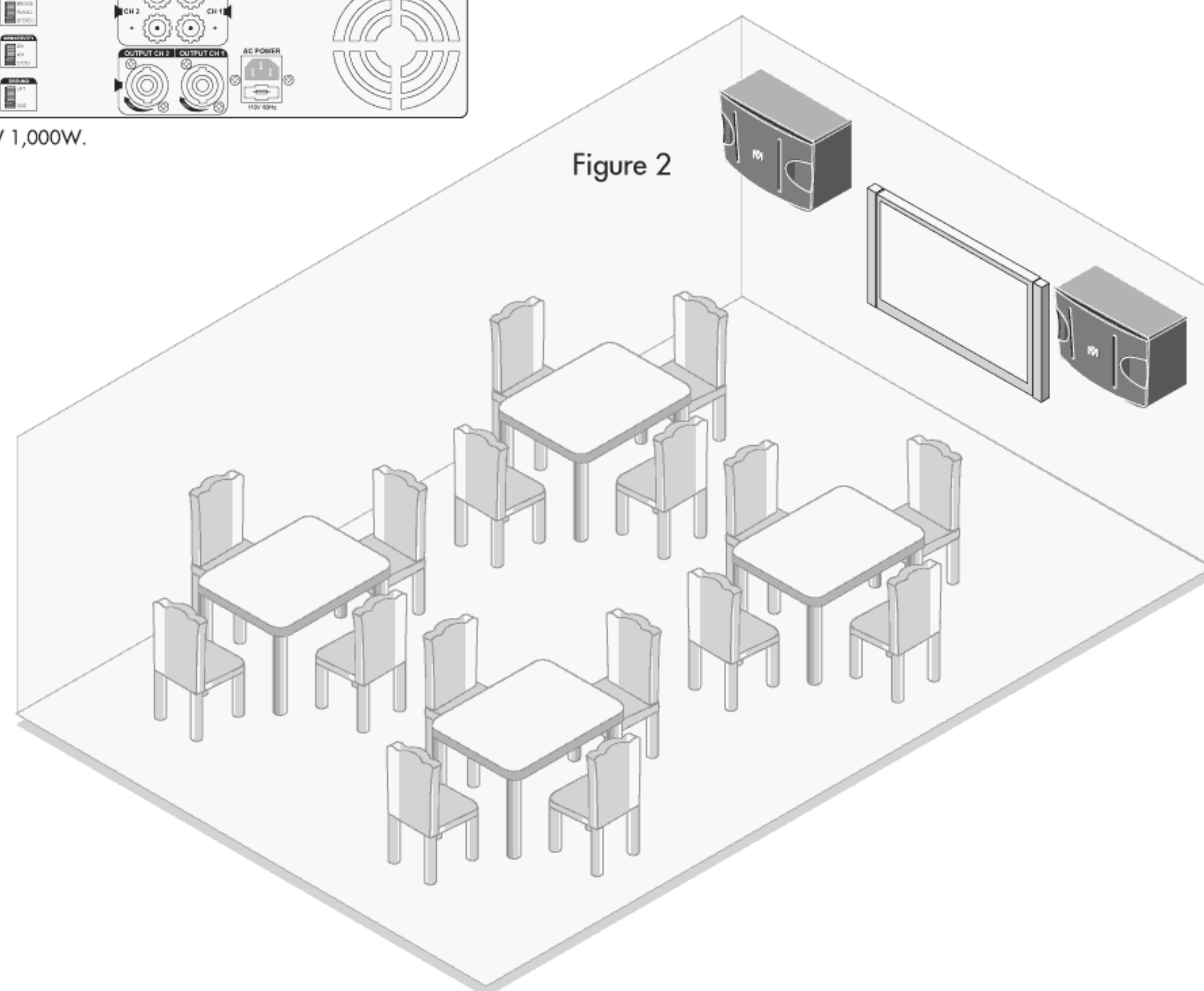


NOTE We recommend you hiring a professional technician to handle the installation for safety purpose.



POWER AMPLIFIER REAR VIEW 1,000W.

Figure 2

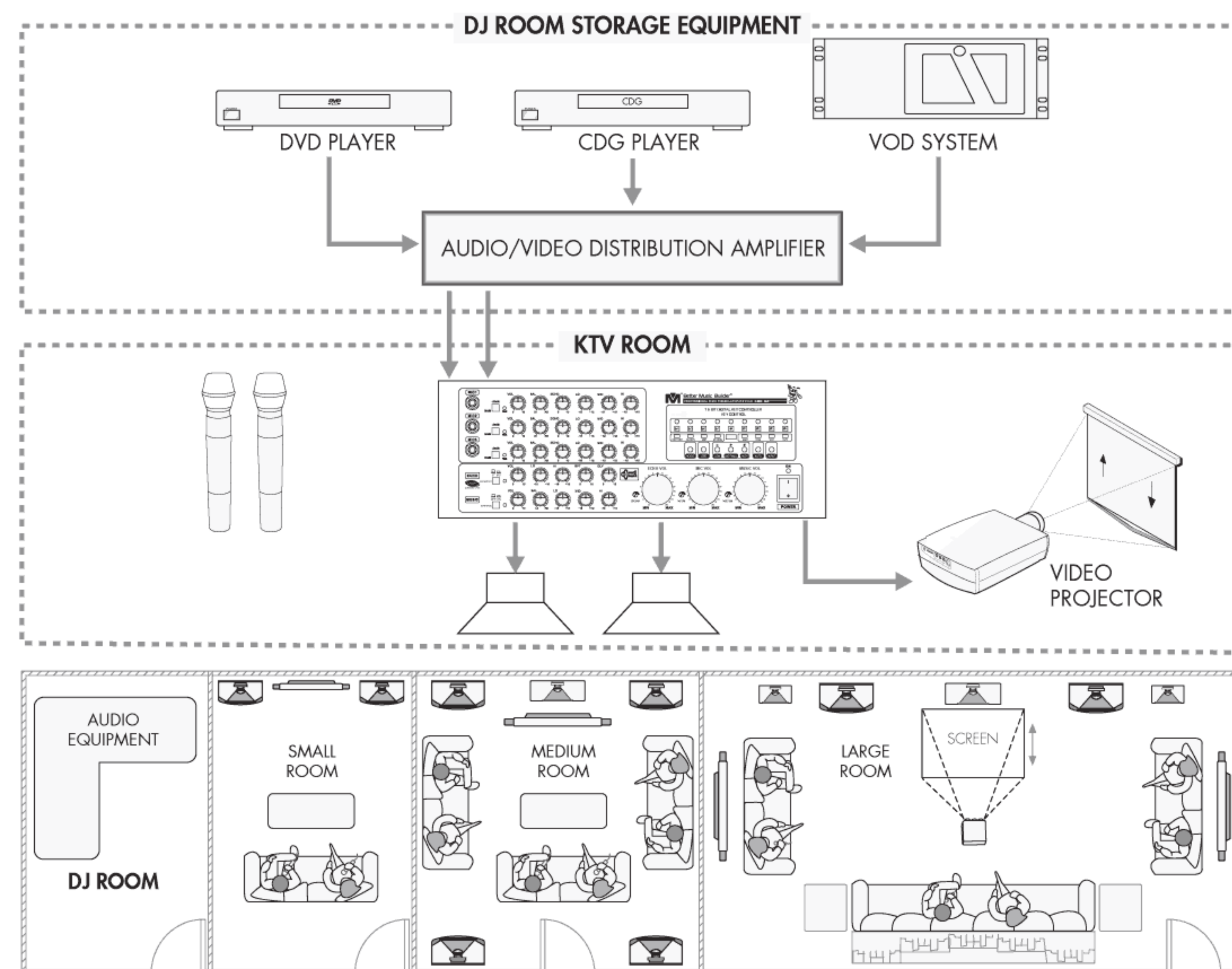


KTV COMMERCIAL APPLICATIONS

Our Better Music Builder engineering team is specialized in KTV equipment design and commercial applications. In KTV audio signal sources (i.e. computer, DVD, VCR and cassette deck) normally come from the DJ room. Each Karaoke room has independent power amplifier and speakers, so it can allow customers to freely make adjustments on music and microphone settings in the Karaoke room. For KTV business application, you need an audio/video distribution amplifier (or simply called AV Distribution amplifier) if the distance between the DJ room and Karaoke room is more than 25 feet to make up for the loss of original signal strength.

A/V Distribution Amplifier is the perfect solution for KTV commercial applications. It is compact, practical and convenient for installation. You can buy this equipment at any audio professional installation company. AV Distribution Amplifier can strengthen the original signals to each Karaoke room from the DJ room. It is also the ideal choice for high-quality and economical 3-channel Analog signal distribution from any HDTV (YPbPr) or RGBHV Video source including 1080p, as well as analog stereo or digital (PCM) Audio.

A/V Distribution Amplifier can deliver crystal-clear, color-rich, artifact-free, and pristine HDTV images to component HDTV-ready monitors in all video formats. It can also drive your HD source to plasma displays, front and rear projectors as well as direct view monitors. In addition, it can be adapted for Composite Video applications. Therefore, you definitely need the AV Distributor Amplifier for KTV commercial use. It would offer your customers excellent sound and video quality for entertainment, so it can enhance the image of your KTV and increase the business.

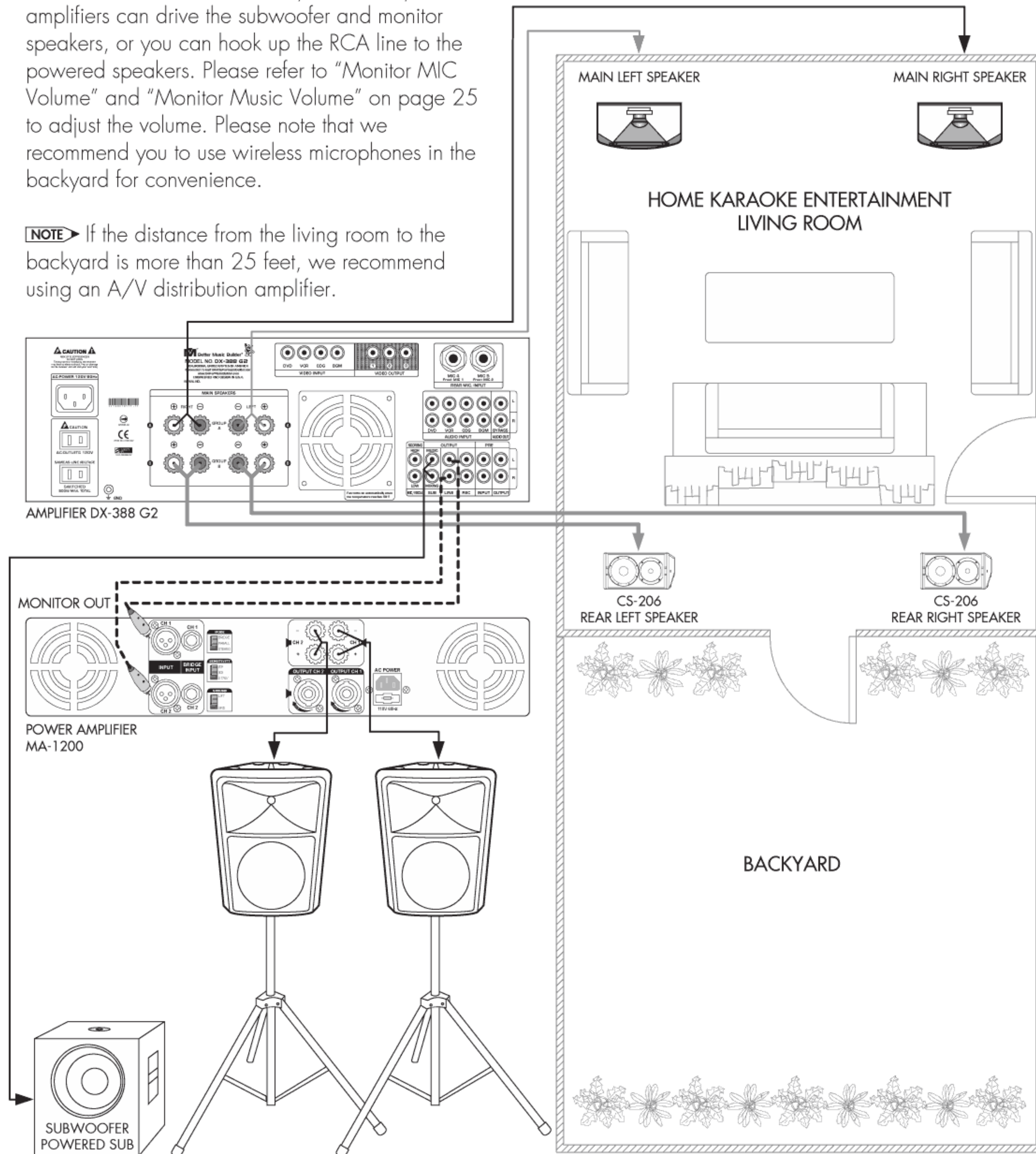


LINE OUT TO EXTERNAL AMPLIFIER

The DX-388 G2 is versatile. It has three line audio level outputs for recording and connection to external power amplifiers to drive subwoofers and monitor speakers. This feature is useful because it's easy to expand.

For example, if you are having a party, you may have guests in the living room where the DX-388 G2 and the 5 speakers are. At the same time, there are people in the backyard. That's when this feature comes in handy. You can run RCA lines to the back yard where power amplifiers can drive the subwoofer and monitor speakers, or you can hook up the RCA line to the powered speakers. Please refer to "Monitor MIC Volume" and "Monitor Music Volume" on page 25 to adjust the volume. Please note that we recommend you to use wireless microphones in the backyard for convenience.

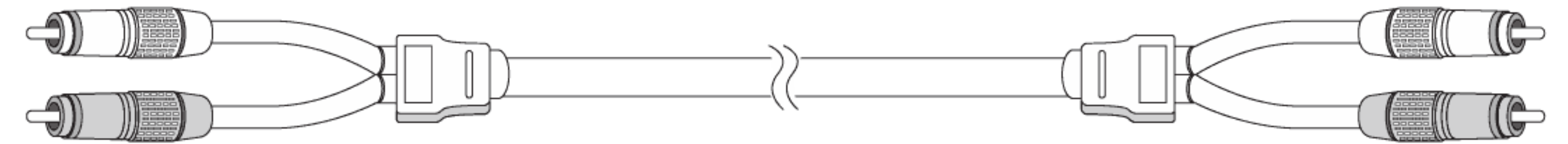
NOTE If the distance from the living room to the backyard is more than 25 feet, we recommend using an A/V distribution amplifier.



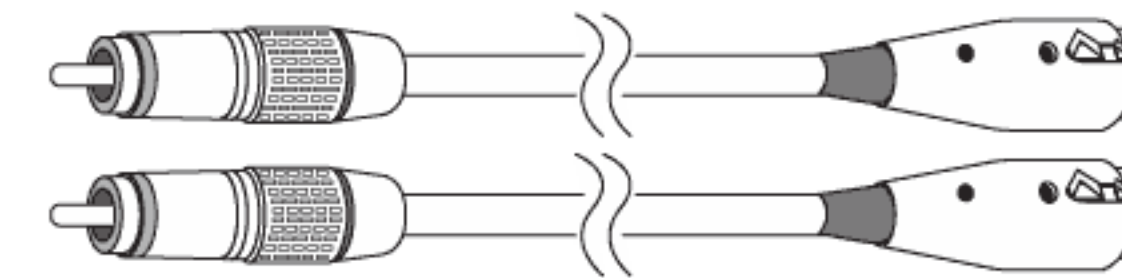
USING EXTERNAL CHANNEL EQUIPMENT

DX-388 G2 is not only a Karaoke mixing amplifier, but it is also a pre-amplifier specially designed for using external equipment. When you connect other equipment to the mixing amplifier, you may need a different type of cable such as RCA to XLR cable. We highly recommend you using high quality cable for connection, so it can give you the crystal clear sound and sharp video image. Please refer to the following figures.

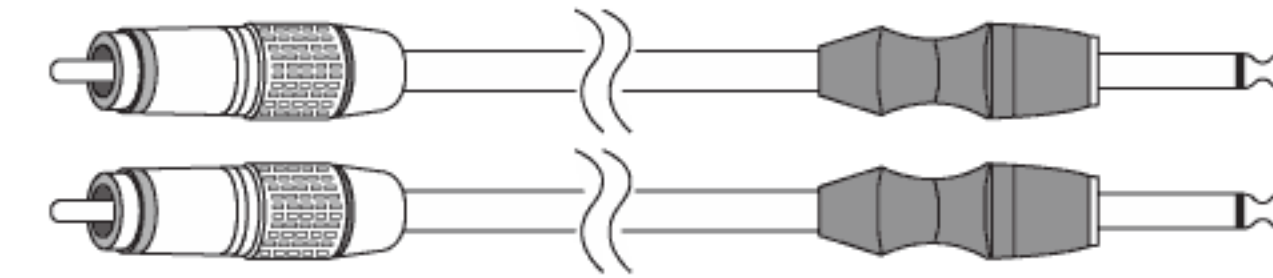
RCA TO RCA CABLE



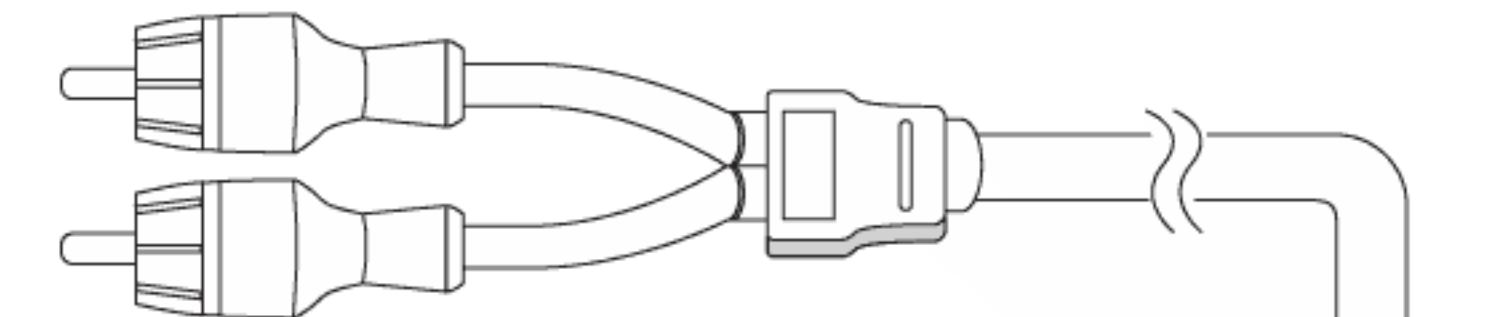
RCA TO XLR CABLE



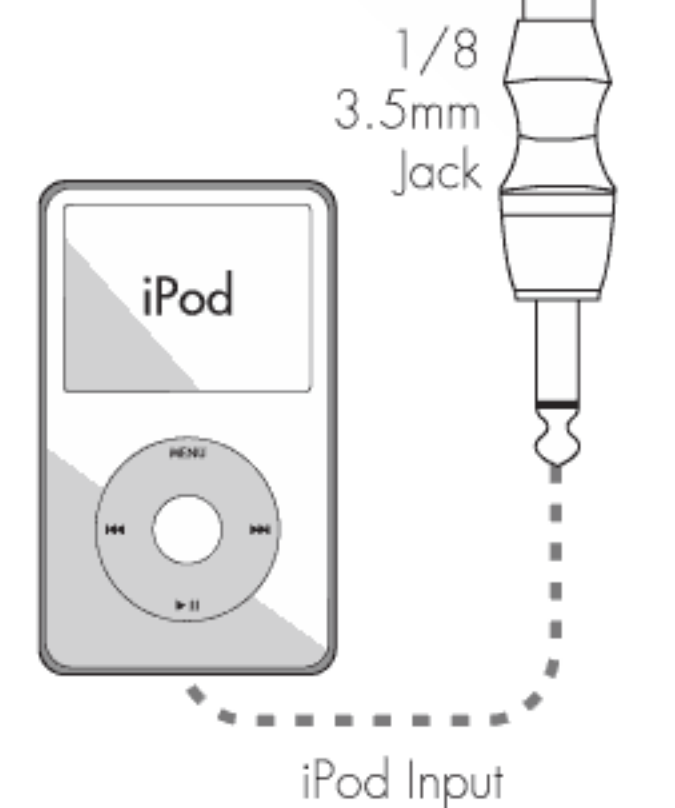
RCA TO 1/4 CABLE



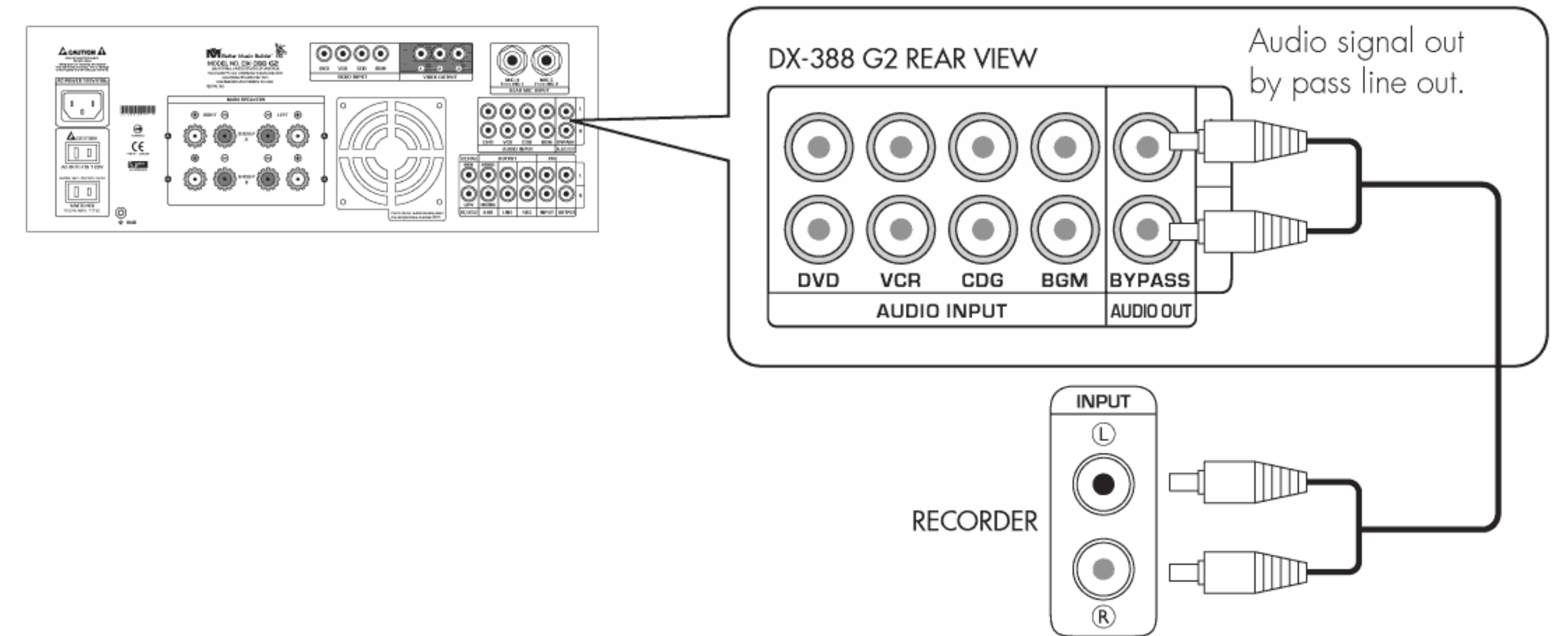
RCA TO MINI CABLE (3.5mm Jack)



Connect your iPod or MP3 player to an amplifier (stereo) makes it fun and easy to keep your favorite music and karaoke with you. For best connection, please use a high quality cable. It is important to use a high quality cable in order to get good sound quality.



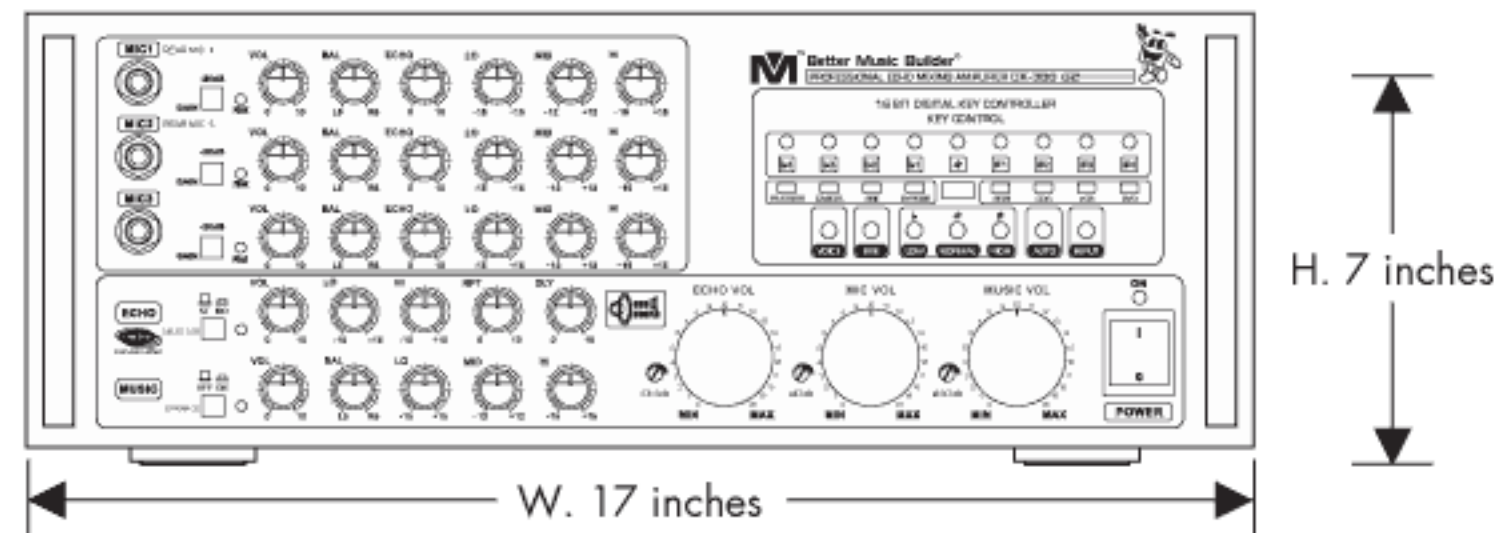
AUDIO OUTPUT BYPASS



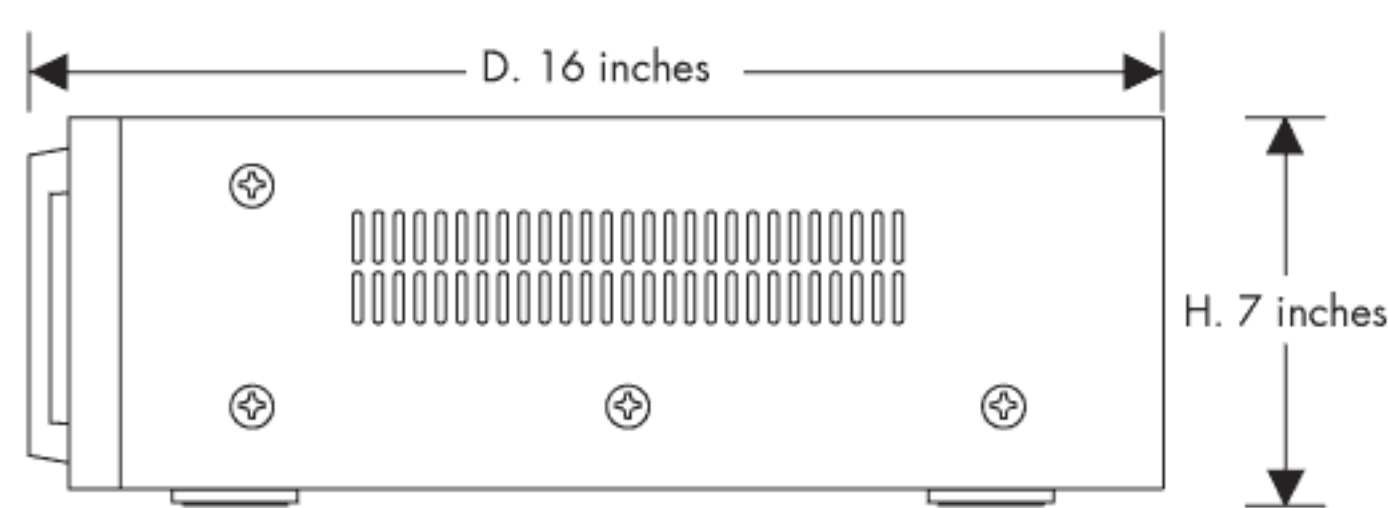
PHYSICAL

Height	7 inches / 17.8 cm
Width	17 inches / 43 cm
Depth	16 inches / 40.7 cm
Net Weight	28.8 lbs / 13.1 kg

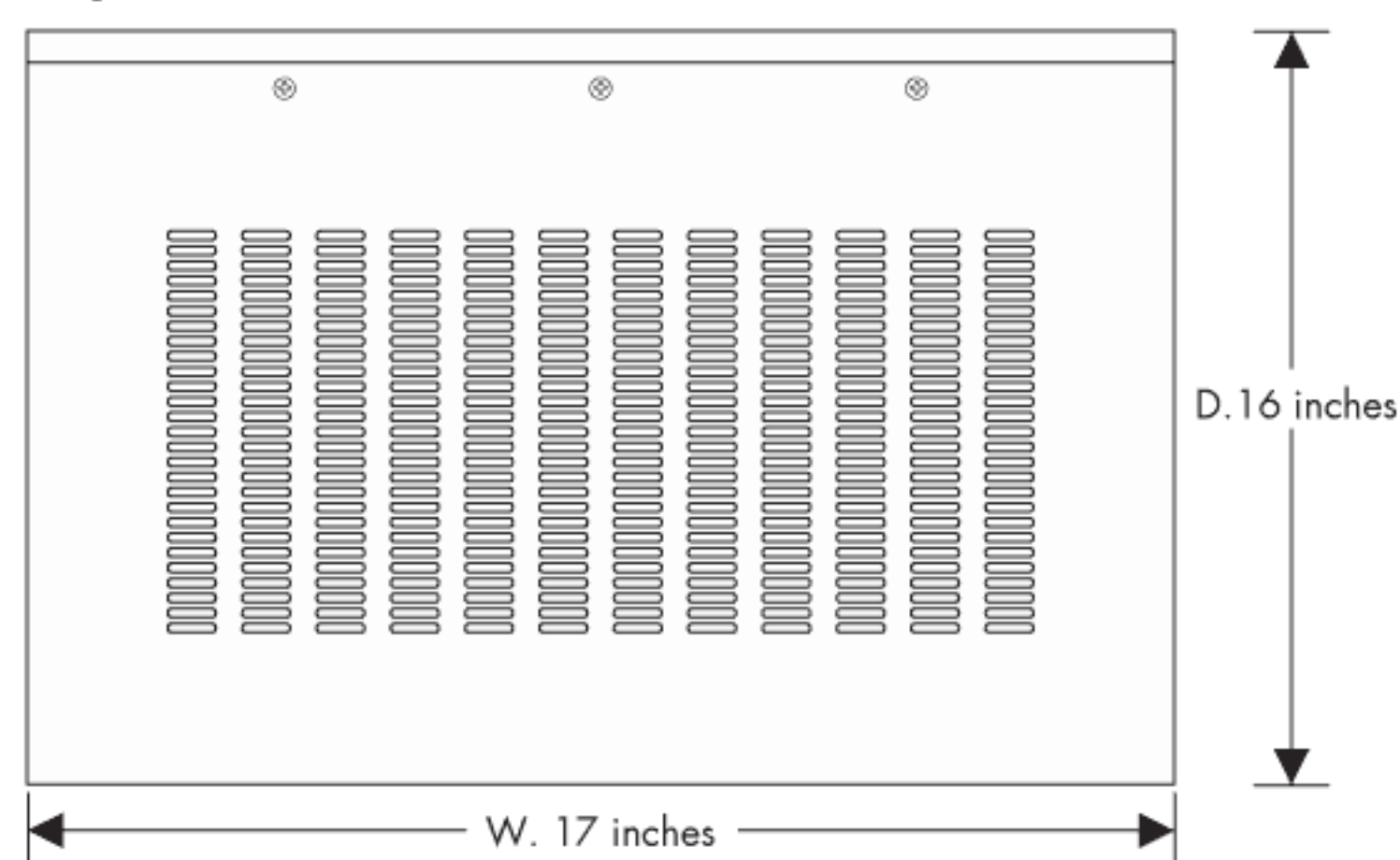
Front view



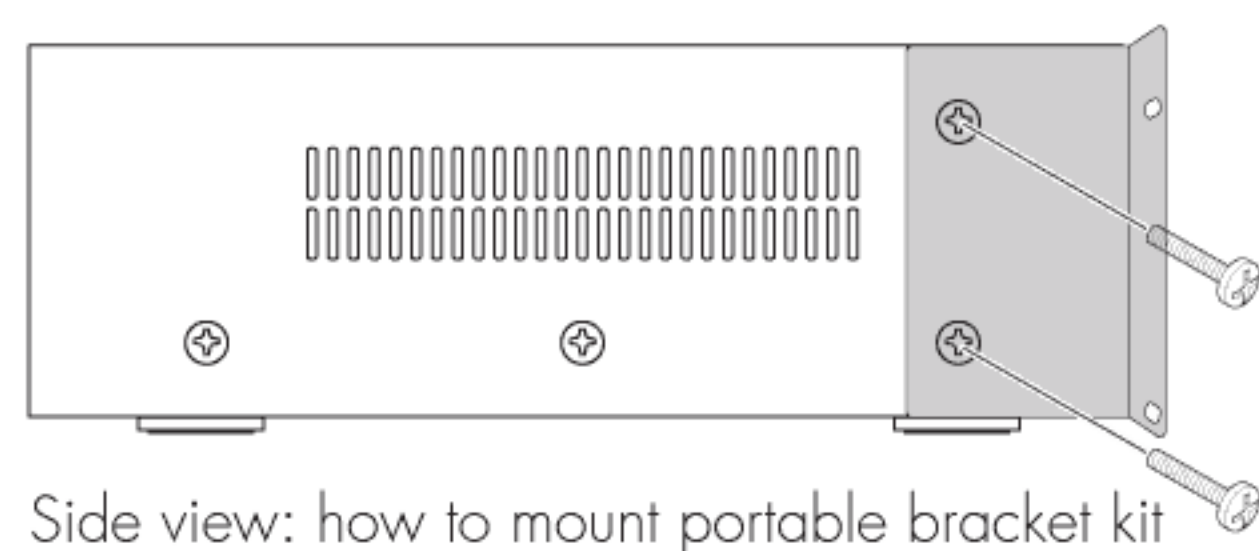
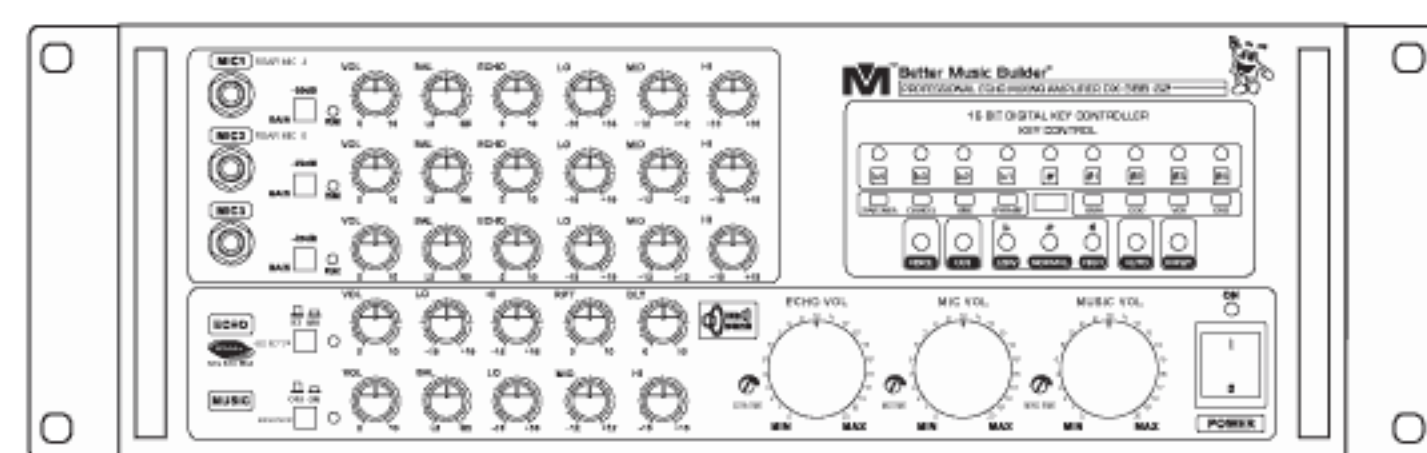
Side view



Top view



Optional for 19" rack mount kit



Side view: how to mount portable bracket kit

The standard kit is optional. Please make sure that you get the right kit for the size you want. Then, you can put the amplifier into the rack. The rack is used to protect the amplifier. If you have such portable equipment, you can have party at home anytime or use it for Karaoke rental business.

The Mounting Bracket in figure 1 is used to hold your audio/video equipment firmly in place, but not for transportation. If you need to transport the equipment, we recommend you using the heavy duty clamping rack shelf (optional) as illustrated in figure 2. You should place the heavy duty clamping rack shelf into the portable case. This would protect your equipment. There are different sizes of the heavy duty clamping rack shelves to suit your specific needs. Please note that the bracket/handler, rack shelf and case are not included in the package. They are optional items and sold separately.

Amplifier Front Bracket for 19" Rack

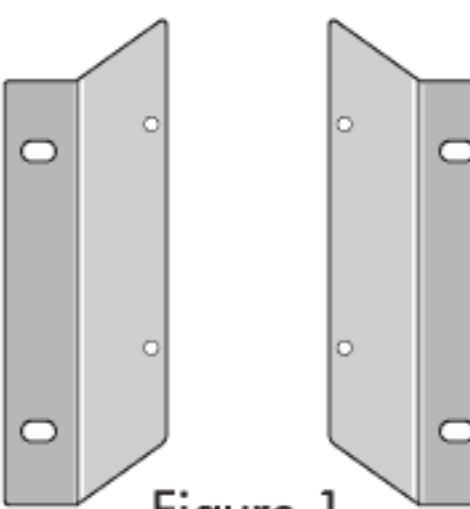


Figure 1

Heavy duty clamping rack shelf

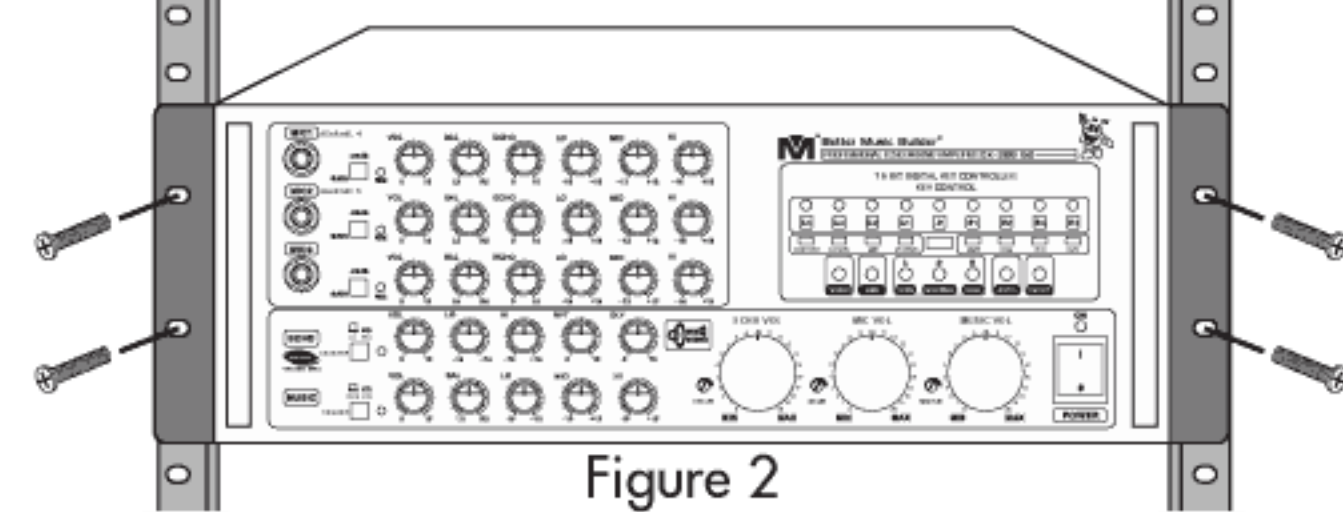
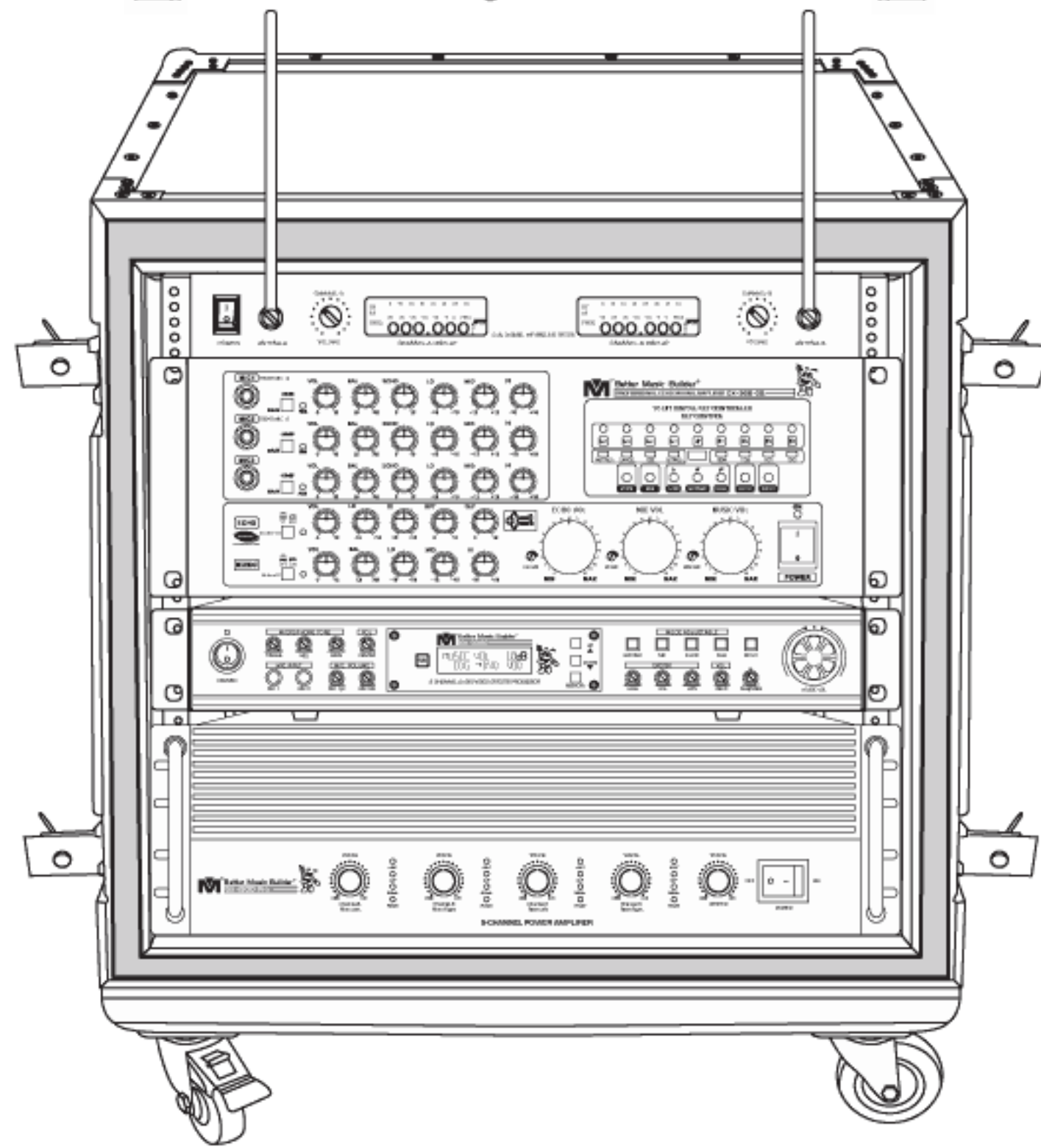


Figure 2



FINAL WORDS TO USER

The engineering team of Better Music Builder has many years of experience in audio equipment design. The team constantly develops new audio technologies, designs innovative audio and Karaoke equipment to suit your specific needs and provides you great ideas for home entertainment. For example, we offer you the great idea to modify your bedroom or basement to become an entertainment place for home theater and Karaoke, so you can have great party with your friends at home.

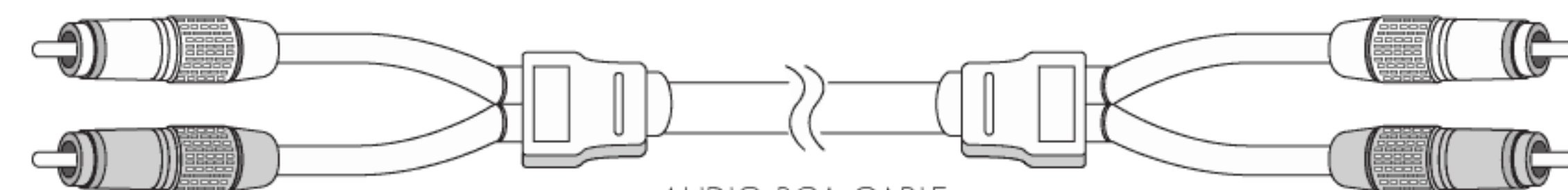
Our engineering team also designs audio equipment for commercial use by restaurants, coffee shops, churches, and school auditoriums, etc. If the commercial area for audio equipment installation exceeds 2,000 square feet, we highly recommend you to hire audio professionals to handle the installation for you in order to avoid risks in breaking the equipment with improper installation and protecting your own safety.

We also provide you free education and technical information on audio equipment and technologies. For example, we provide free installation diagrams to make it easier for you to connect the system. In addition, to get best connections for the sharpest image and good sound quality, we give you the hot tip for choosing the high quality type of A/V cable for connections. You can download the free information on audio equipment and technologies from our website www.BetterMusicBuilder.com.



HIGH QUALITY A/V CABLE FOR CONNECTION

POOR QUALITY CABLE



AUDIO RCA CABLE



AUDIO/VIDEO RCA CABLE

Please do not remove the "Yellow Label" in the rear of your machine, otherwise, the warranty will become void automatically. We design it to protect your own safety. If you need repair and maintenance service, you may contact us directly or hire a professional technician to repair your machine. To learn more about the technical aspects, you can visit our website www.BetterMusicBuilder.com and download the relevant information for review.



Any form of tampering with this product, will void the warranty.

NOTE

Before you hook up the system, you must turn off the AC powers on all machines including audio/video equipment and TV. Otherwise, it may damage your equipment, especially on the HDTV in which a spot appeared in the TV screen. After you have hooked up the system, you must double check the audio/video connections to ensure that they are connected correctly.

Sometimes the cable of poor quality would affect the microphone effects, picture quality, or even cause the machine to shut down suddenly.

Again, we must thank you for choosing Better Music Builder product. We hope you can make the best use of the machine and enjoy it for fun. If you have any questions regarding your machine, please feel free to contact us at www.BetterMusicBuilder.com.

TROUBLESHOOTING

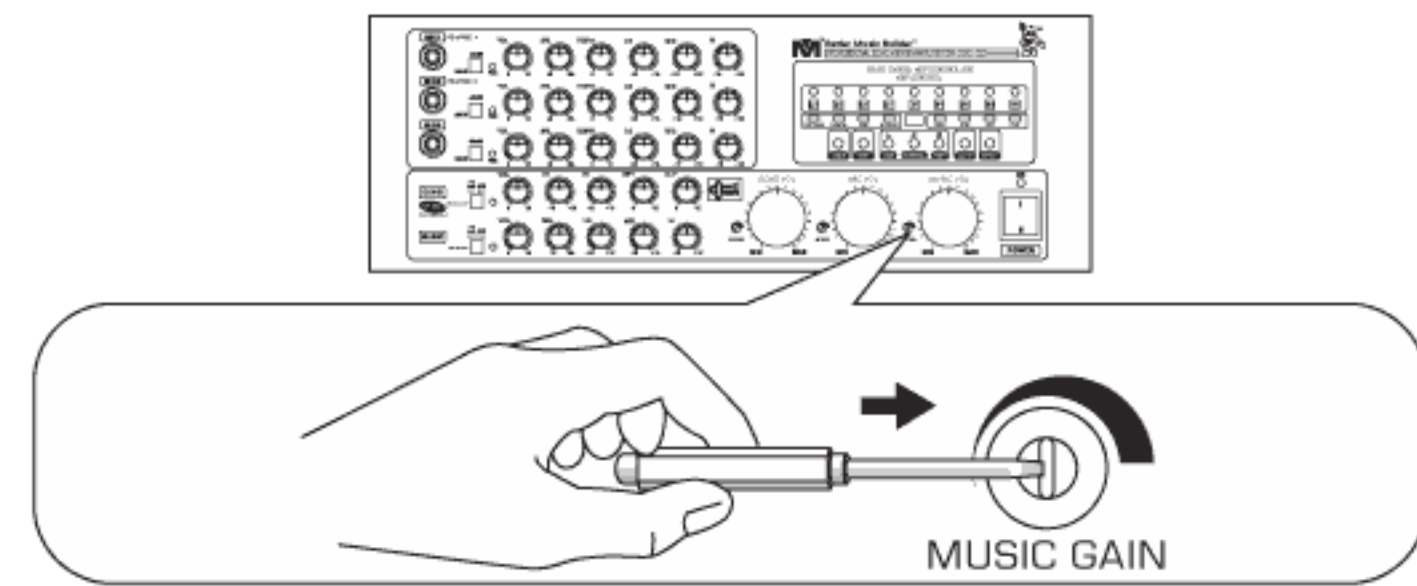
1. Symptom: Vocal Cancellation does not work

The original audio decoding of your disk is locked. Therefore, you need to use the remote control of your disk player to perform the vocal cancellation function. Please refer to page 23.

There is also another possibility that your disk is a compact CD. The vocal cancellation function does not work with compact CD.

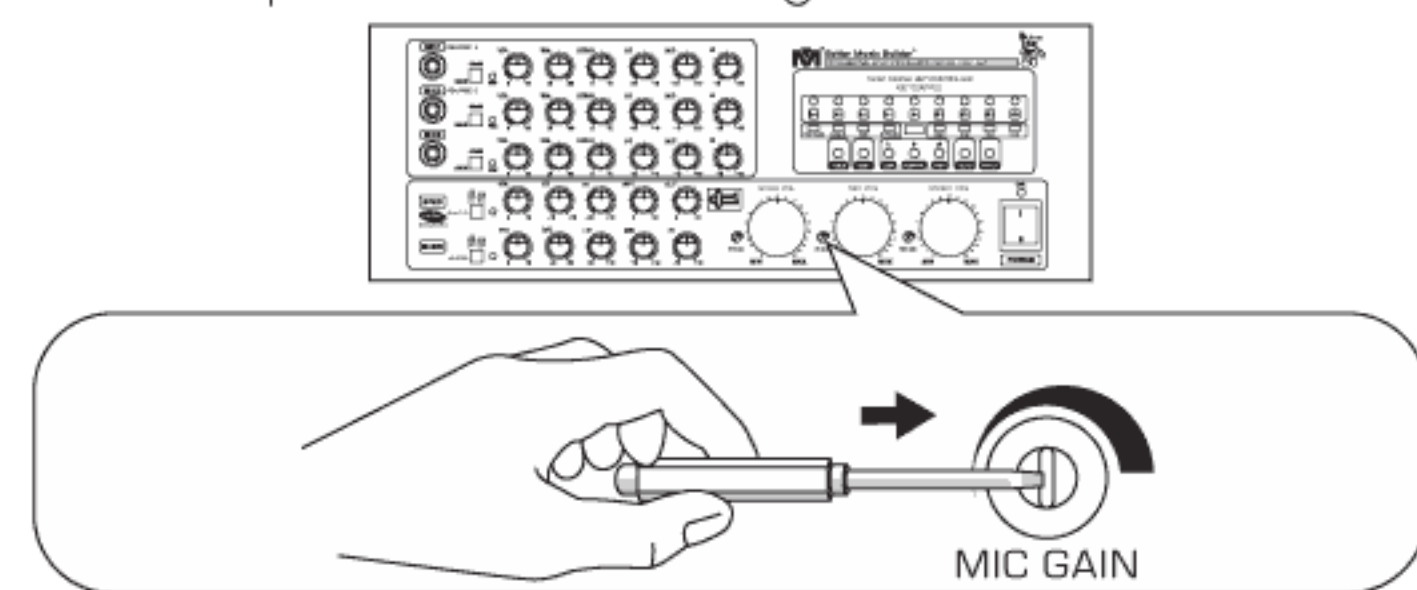
2. Symptom: Music signal is low

It is impossible that the MUSIC GAIN is set at a very low level. MUSIC GAIN is a music volume limiter, which is used to protect your audio equipment from burning because of turning the music volume too high.



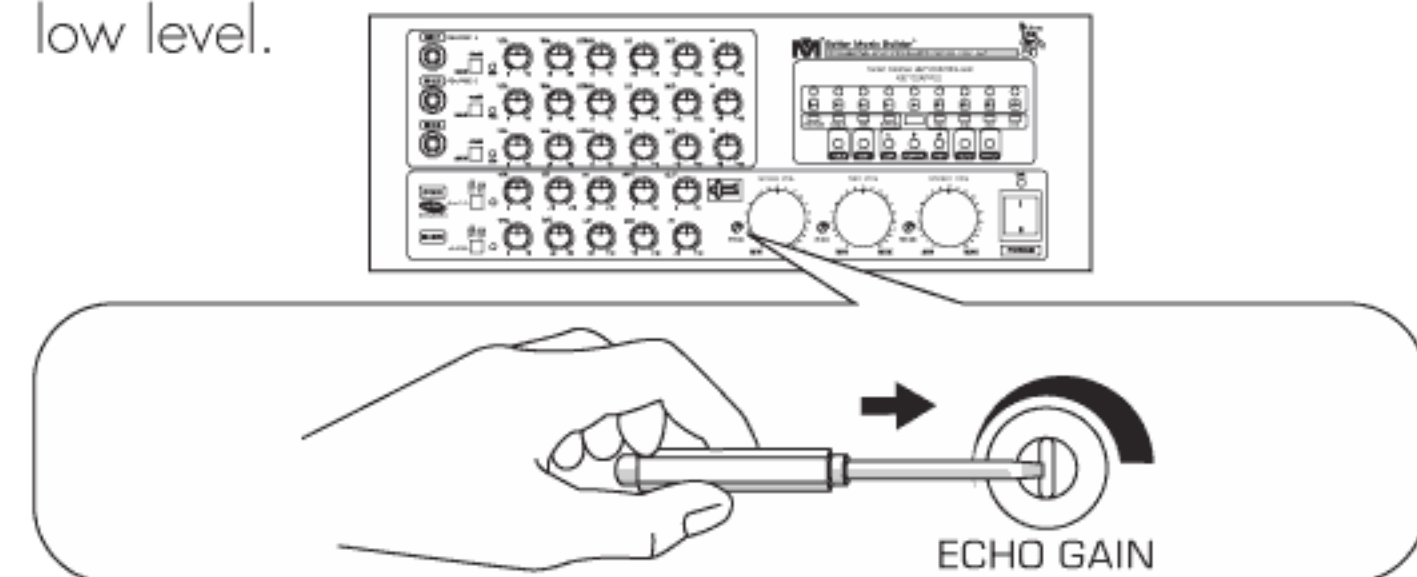
3. Symptom: Microphone volume is low

It is impossible that the MICROPHONE GAIN is set at a very low level. MICROPHONE GAIN is a microphone volume limiter, which is used to protect your audio equipment from burning because of turning the microphone volume too high.



4. Symptom: Echo volume is too low

It is impossible that the ECHO GAIN is set at a very low level.



5. Symptom: Excessive microphone feedback

Both the MICROPHONE GAIN button and the GAIN limiter are turning at high volume, so excessive feedbacks and unpleasant sounds are produced. To reduce it, press the MICROPHONE GAIN button down and adjust the MICROPHONE GAIN limiter to comfortable low volume.

6. Symptom: No video signal or video signal is unstable

DX-388 G2 operates in multi-video formats. It is possible that your DVD player is in PAL video format. NTSC video format is used in North America. Therefore, you must set the video format to NTSC in the remote controller of the DVD player.

DVD PLAYER VIDEO SETTING		
TV Display	PS	Normal/PS Normal/LB Wide
TV Type	NTSC	PAL Multi NTSC (Good for Northern America)
TV Output	SVideo	YUV (High Definition Video) SVideo

7. Symptom: Recording signal is too low

There may be a connection problem. Connecting the recording machine to the "BYPASS AUDIO OUT" located at the rear of the amplifier may produce very low recording signal because of the bypass signals. Therefore, you may connect to "LINE OUT" or "RECORDING" under the "AUDIO OUTPUT" also located at the rear of the amplifier. However, any adjustments (such as echo, microphone tone and music tone) would affect the audio signals for recording.

8. Symptom: Bass on vocal sound not clear.

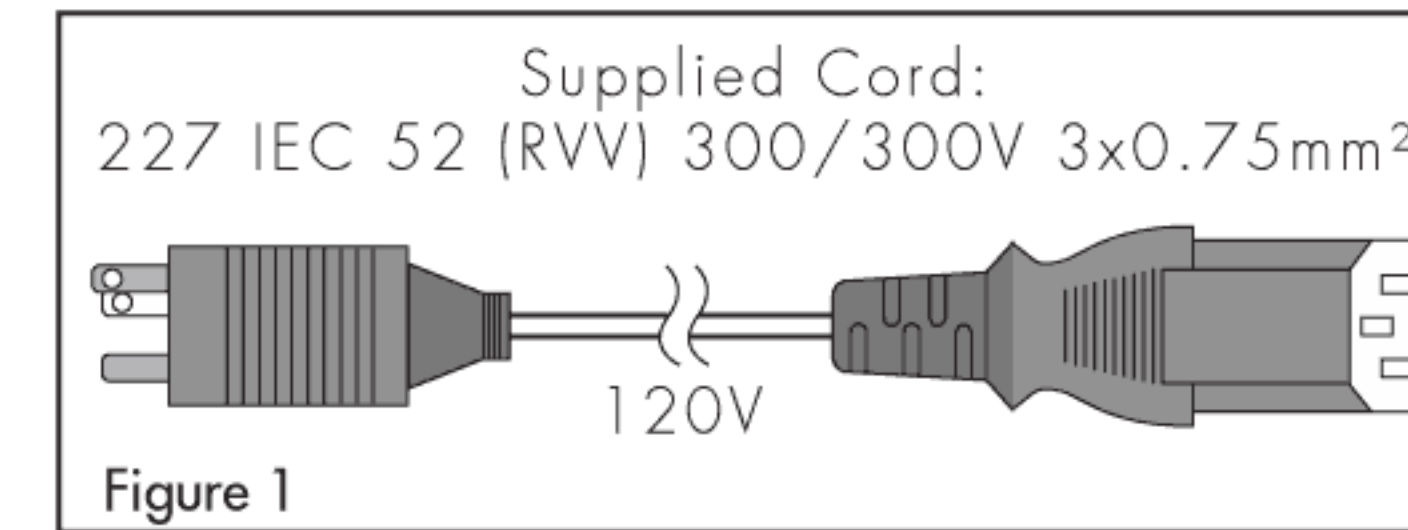
When you sing or make an announcement with the microphone, there is too much bass. You may connect to the subwoofer improperly. It is because the SUB OUT of this unit has two different functions: Music for bass and missing for music and vocal. Please refer to page 16.

9. Amplifier Shut Down/Interference Noise

Symptom: the amplifier automatically shut down when playing at high volume or interference noise from the speaker output.

Probable cause: you are using a wrong AC power cord that is thinner than our supplied cord.

Remedy: only use the AC power cord supplied with the unit by our manufacturer or equivalent. See illustration below.

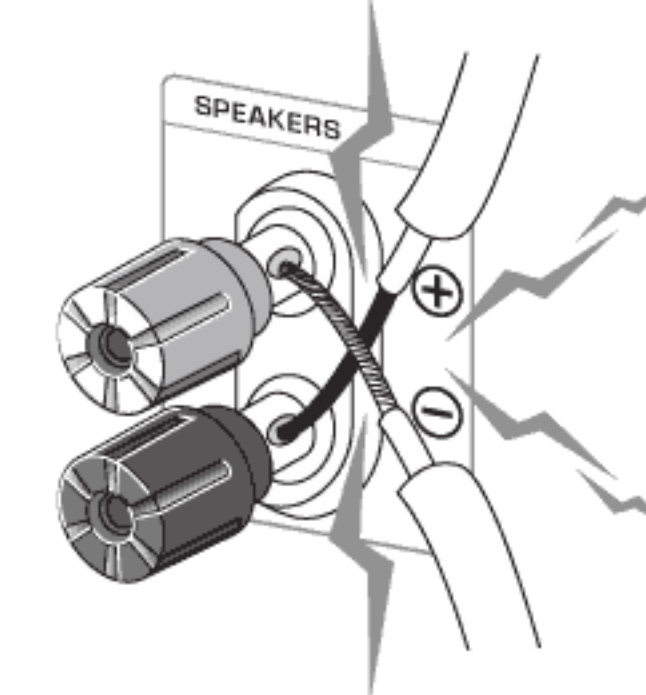


10. Sound Problem

Symptom: No sound.

Possible Cause:

1. Speaker wires positive and negative touch each other at the terminals. We recommend you using the double banana plug.



2. "Mute" is on.

3. "MUSIC GAIN" is on with music volume limit adjusted too low. Please refer to page 25.

11. Noise and Distortion

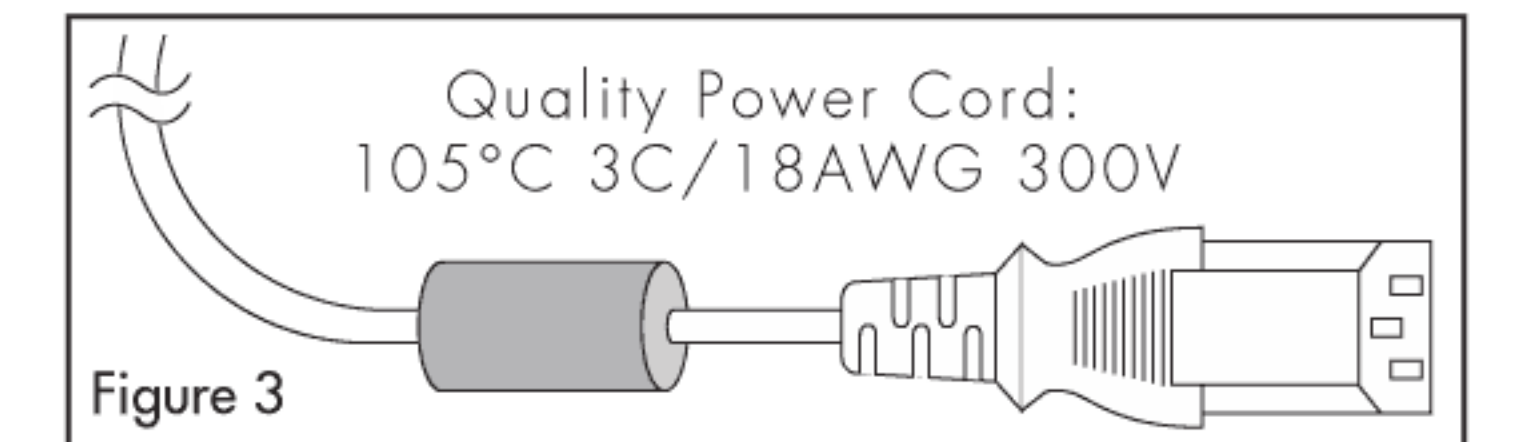
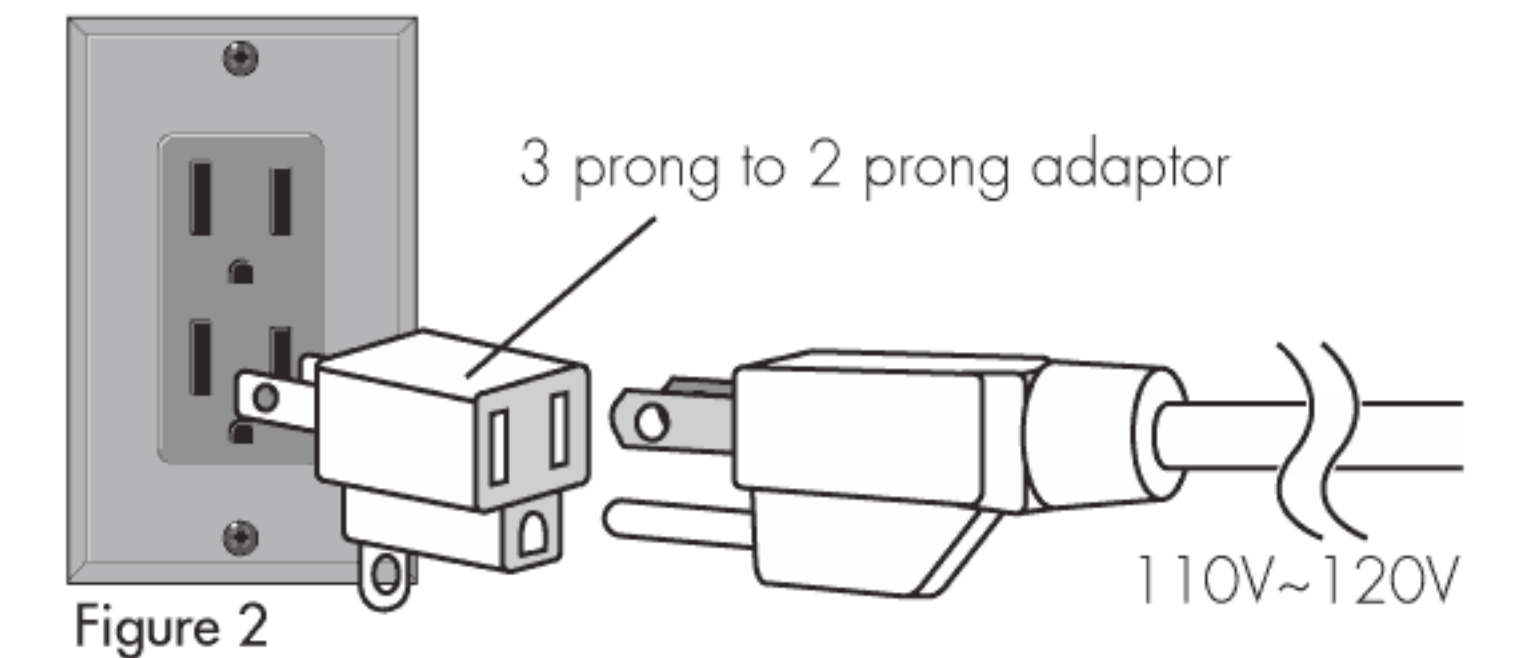
When you hear humming noise or displeasing sound, you may do the following:

1. Use a 3 prong to 2 prong adaptor to connect to the power cord for eliminating the noise.

2. You may purchase an AC power cord with a magnetic device as shown in figure 3 to replace the supplied power cord.

NOTE

In North America many families own satellite TVs, HD TVs and cable TV receivers. They may cause interference which affect both audio and video equipment. The power cord as shown in figure 3 may help eliminate the humming sound and enhance TV picture quality.





Passionate about Music
www.BetterMusicBuilder.com