

# VocoPro

ULTIMATE CHOICE OF KARAOKE ENTERTAINMENT

## OWNER'S MANUAL

### DA-809G

#### DIGITAL KARAOKE MIXER / CD+G DECODER



Built-in CD+G Decoder Turns CD Players, DVD Players or LD Players with Digital Output into Karaoke CD+G Players. **NOTE: The Player must have direct digital output from the point of laser pick-up or it may not decode.**



**IMPORTANT INFORMATION:** Thank you for choosing The DA-809G. To make full and effective use of this unit, please read this Owner's Manual carefully before operating.

# **GENERAL WARNING**

## **CAUTION**

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**CAUTION: TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of -insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



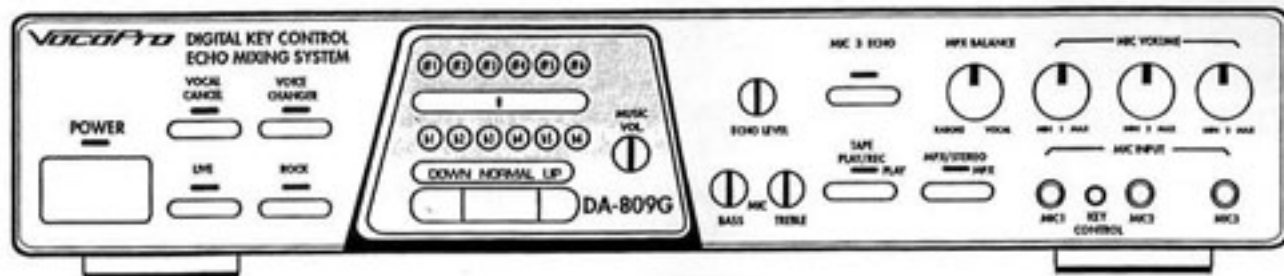
The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# GENERAL SAFETY PRECAUTIONS

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- 1. READ INSTRUCTIONS** - ALL THE SAFETY AND OPERATION INSTRUCTIONS SHOULD BE READ BEFORE THE DA-809G IS OPERATED.
- 2. RETAIN INSTRUCTIONS AND PACKAGING** - THE SAFETY AND OPERATING INSTRUCTIONS SHOULD BE KEPT FOR FUTURE REFERENCE. ALSO KEEP THE BOX IN CASE THE UNIT NEEDS TO BE RETURNED FOR SERVICE.
- 3. HEED WARNINGS** - ALL WARNINGS ON THE DA-809G AND IN THESE OPERATING INSTRUCTIONS SHOULD BE FOLLOWED.
- 4. FOLLOW INSTRUCTIONS** - ALL OPERATING AND OTHER INSTRUCTIONS SHOULD BE FOLLOWED.
- 5. WATER AND MOISTURE** - THE DA-809G SHOULD NOT BE USED NEAR WATER - FOR EXAMPLE, NEAR A BATHTUB, WASHBOWL, KITCHEN SINK, LAUNDRY TUB, IN A WET BASEMENT, OR SWIMMING POOL.
- 6. HEAT** - THE DA-809G SHOULD BE SITUATED AWAY FROM HEAT SOURCES SUCH AS RADIATORS, OR OTHER DEVICES WHICH PRODUCE HEAT.
- 7. 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, PAYING PARTICULAR ATTENTION TO CORDS AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT THE DA-809G.
- 8. OBJECT AND LIQUID ENTRY** - CARE SHOULD BE TAKEN SO THAT OBJECTS DO NOT FALL INTO AND LIQUIDS ARE NOT SPILLED INTO THE INSIDE OF THE DA-809G.
- 9. SERVICE** - THE DA-809G SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL. THE USER SHOULD NOT ATTEMPT TO SERVICE THE DA-809G. DOING SO MAY VOID THE WARRANTY.

# THE DA-809G FEATURES



- BUILT-IN CD+G DECODER
- 12 STEP (HALF TONE) PROFESSIONAL DSP KEY CONTROLLER
- DIGITAL ECHO / REPEAT / DELAY
- THREE MICROPHONE INPUTS WITH ECHO ON/OFF ON MIC. 3
- MICROPHONE BASS / TREBLE CONTROLS
- TWO SETS OF AUDIO INPUTS WITH LINE AND TAPE RECORD OUT JACKS
- BUILT-IN VIDEO SWITCHING WITH TWO INPUT AND ONE OUTPUT
- DIGITAL VOCAL ELIMINATION REDUCES VOCAL ON REGULAR CD
- VOCAL CANCEL AND VOCAL CHANGER FUNCTION WITH ADJUSTABLE MULTIPLEX LEVEL
- TWO SOUND FIELD EFFECT (LIVE / ROCK)
- SUB-WOOFER OUTPUT

# TABLE OF CONTENTS

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*Congratulations! And thank you for purchasing the VocoPro DA-809G. With proper care and handling, this unit will continue to provide you with years of Karaoke entertainment and fun for friends and family. Please read this manual carefully before getting started.*

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# BEFORE YOU START

Thank you for purchasing The DA-809G. At VocoPro we care about product quality and customer satisfaction. We know The DA-809G will provide years of quality enjoyment and reliable music entertainment for you when used properly.

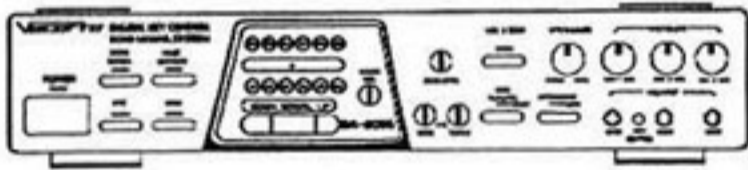
**PLEASE READ CAREFULLY BEFORE USING YOUR NEW DA-809G**

## Unpacking The DA-809G

Carefully remove The DA-809G from its carton before discarding the packaging materials. If it should become necessary to return the unit for any reason the original packaging materials are best suited for transporting the unit to minimize any potential damage.

**BE SURE YOU HAVE THE PARTS AND COMPONENTS INCLUDED WITH THE DA-809G.**

1 DA-809G Karaoke Mixer  
/ CD+G Decoder



1 RCA cable for video hookup



## SUPPLYING POWER TO THE DA-809G

**IMPORTANT!** Be sure all your components i.e., TV monitor, etc., are connected to the DA-809G BEFORE connecting to a power source and supplying power to the unit. Be sure to use caution when plugging in any electrical appliance. The DA-809G comes with its own standard wall outlet power cord. It is attached to the back of The DA-809G player unit. Plug the power cord into any wall outlet or surge protector.

# QUICK START

## CONNECTING A TELEVISION MONITOR

If you will be connecting The DA-809G to a television monitor use the RCA video connector wire that is included. On the back of the unit, locate the RCA connector jack labeled "VIDEO OUTPUT", it is color coded in yellow. Connect either end of the RCA connector wire to the "VIDEO OUTPUT" jack and the other end to your television monitor. There should be an RCA connector jack, just like the one on the back of the player, labeled video input. Connecting this wire will enable your television monitor to display the graphics that are encoded on CDG Karaoke discs. **NOTE: If your television does not have an RCA type connector you must use an external RF Modulator.**

**IMPORTANT!** Before connecting a microphone, be sure the power is off or the volume is turned all the way down. When the microphone is plugged in and the unit is on do not point the microphone directly toward the speakers or leave an unattended microphone too close to the speakers when the volume is up. This can create a loud squeal called "feedback" and could possibly damage your speakers.

## CONNECTING A MICROPHONE

1. Using a microphone cable, designed for vocal use with most Karaoke products, connect a microphone to the end of the cable with the "XLR" connector (see diagram).
2. Connect the end of the cable with the 1/4" connector into either of the 1/4" jacks on the front of The DA-809G mixer.

# QUICK START

## Connecting your DA-809G

### Audio Connections:

1. Connect the left and right **line out** jacks on the back of the DA-809G to your receiver's left and right AUX or CD input jacks with an RCA connector cable.
2. Connect the left and right audio output from the back of player "1" (player **must** have a digital output to decode CD+Gs) to the left and right line input jacks on the back of the DA-809G, with an RCA connector cable.
3. You can connect the audio output of a second player/recorder (player "2") to the tape input jack(s) of the DA-809G.
4. If you are using your second player to record, connect the audio output of the player to the tape input jacks of the DA-809G.

### Video Connections:

1. Connect the video output jacks of the DA-809G to the video input of your TV. NOTE: If your TV does not have video input you may use an external RF modulator or use your VCR as an RF modulator. (refer to the video connection page of this manual).
2. Connect your player's video output to the video input of the DA-809G. NOTE: IF you are using the DA-809G to decode graphics, DO NOT connect the LINE IN video input jack. Make sure the video switch on the back of the DA-809G is pressed in for graphic output. If you have a video output for player "1", connect the video output to the TV or receiver's video output directly.
3. Connect either an optical or coaxial cable from the digital output of player "1" to the digital input of the DA-809G. Make sure the coaxial/optical switch is in the correct position.

### Operation:

1. Turn on the DA-809G and the receiver/amplifier. Switch the receiver/amplifier to the proper input (AUX, CD, ect.). Turn down mic volume "1", plug a mic into mic jack "1", turn on the mic (if it has an on/off switch), turn up the mic volume slowly and talk into the mic. You should hear your voice from your speakers.
2. Place a disc in player "1" and play the disc. Make sure the input selector (tape play/record button) is in the upper position for the LINE input (player "1"). You should be able to hear the music and change the key of the music.
3. If you are using the DA-809G to decode graphics, turn on your TV. Set it to "video" mode (you should see a blue or black screen on your TV). Make sure the input selector of the DA-809G (tape play/record button) is switched to the upper position for player "1" **before** you play the CD+G disc or the graphics will not be decoded.

# USING EFFECTS AND CHANGING THE KEY

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## BALANCING YOUR MIX

1. It is best to begin by first setting the music volume at a comfortable level for the room in which you are using your DA-809G. The number of people in a room will generally have an effect on the acoustics of a room and how much volume you will need.
2. Once the desired music volume is achieved, test each microphone volume individually by speaking or singing into the microphone, holding it approximately two inches away from your mouth.
3. Adjust the volume control(s) for each microphone until an equal mix of music and vocals can be heard. Remember to allow for vocal variances in each song where it may be necessary to sing louder or softer.

## ADDING BASS OR TREBLE TO THE MIC

1. Locate the small "BASS" and "TREBLE" control knobs on the front of The DA-809G underneath the "ECHO LEVEL" knob.
2. To add bass tone to the mic, talk into the mic, turn the "BASS" knob clockwise until you have added the desired amount of bass tone to the mic. Likewise to remove bass tone turn the knob counter clockwise.
3. To add treble tone to the mic, talk into the mic, turn the "TREBLE" knob clockwise until you have added the desired amount of treble tone to the mic.

Note: A bass tone is a "low" "warm" tone. A treble tone is a "higher" and "brighter" sounding tone than a bass tone. How much is added or taken out is a matter of personal preference to the listener(s).

## ADDING EFFECTS (ECHO) TO THE VOCAL SIGNAL

1. The "ECHO" control knob is located on the front of the DA-809G. Turn the knob in a clockwise motion until the desired amount of echo is achieved on the vocal signal. This is usually a preference by the singer. The more echo that is used the "thinner" the voice sounds.
2. The "REPEAT/DELAY" control knob is located on the back of the DA-809G. Turn the knob in a clockwise motion until the desired amount of repeat/delay is achieved on the vocal signal. This is usually a preference by the singer. Repeat adjusts the interval repetition of the echo effect. The delay adjusts the length of each interval.



# USING EFFECTS AND CHANGING THE KEY

## CHANGING THE KEY OF THE MUSIC

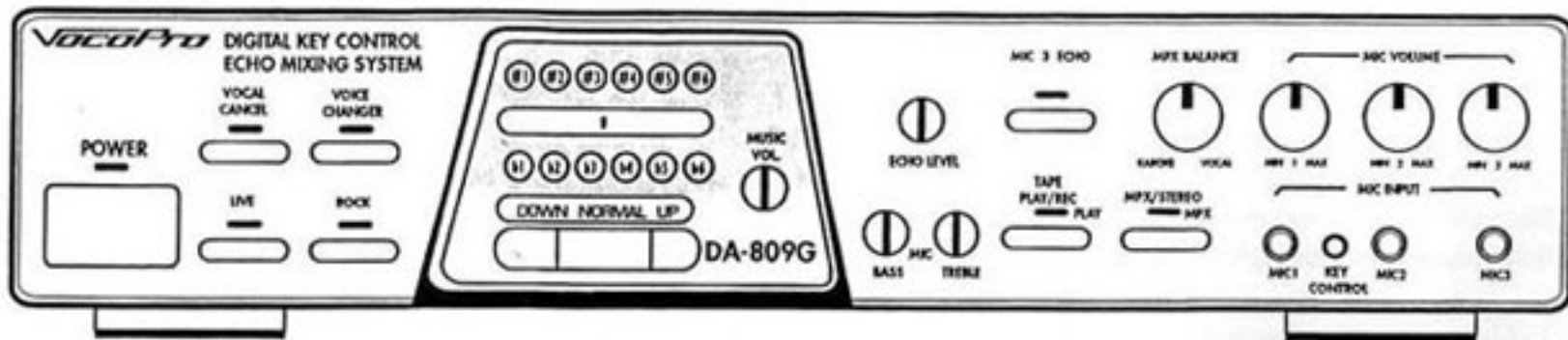
Sometimes a singer would like to sing a particular song but will find it may not be written within a key or range comfortable for the singer. In this case you can raise or lower the pitch or key of the music to make it easier to sing, both on a CD/CDG or cassette. NOTE: When raising or lowering the key of the music the tempo will remain the same.

1. First locate the Key Control buttons on the front of the DA-809G. There are three buttons under which are the words "DOWN, UP, AND NORMAL". There is a button for each of the following three functions.
  - a. UP (Sharp)  $\sharp$  Used to raise the pitch or key of the music.
  - b. Normal (Natural)  $\natural$  Used to return the music to it's "natural" or "original" pitch or key.
  - c. Down (Flat)  $\flat$  Used to lower the pitch or key of the music.

## RAISING OR LOWERING THE PITCH (OR KEY) OF THE MUSIC

1. To raise the pitch or key of the music press the "sharp" ( $\sharp$ ) sign once for each  $\frac{1}{2}$  step you would like the music raised.
2. To lower the pitch or key of the music press the "flat" ( $\flat$ ) sign once for each  $\frac{1}{2}$  step you would like the music lowered.
3. To return the music to its "natural" or "original" key, simply press the "natural" key button once.

# CARE AND HANDLING



- ① Wipe the DA-809G with a clean damp (not wet) cloth to remove dust. Do not use solvents or other cleaning agents as this may harm the finish. To remove dust from the cloth speaker cover try using the brush upholstery attachment of any household vacuum cleaner, and vacuum the dust from the screen.
- ② Do not set food or liquids on the DA-809G, to avoid potential electrical shortages, or spill anything into the electronics or working parts, that may cause damage not covered by your warranty.
- ③ Do not use near excessive heat sources, such as wall radiators, or near water sources to avoid the risk damage to the unit or electrical shock.
- ④ Turn off machine before unplugging the unit from wall outlet. Never pull the power cord to unplug. For safety, always use the plug.

## TROUBLE SHOOTING GUIDE

### PROBLEM

### POSSIBLE CAUSE(S)

### SOLUTION(S)

No sound going to the receiver / amp.

1. The input selector (tape play / rec. button) is set at the wrong position.
2. The output jack of the DA-809G may not be connected correctly.

1. Switch to the correct input between line and tape input on the tape play/rec. button.
2. Make sure the output from the DA-809G is connected from the LINE OUT to the input of the receiver.

Unable to connect the DA-809G to my television monitor with the "RCA" cable provided.

Not all televisions/monitors have "RCA" connector jacks.

Use an external RF modulator.

No Graphics

The video selector on the back of the unit may be switched to the wrong setting.

Press the video selector switch inward to select the alternate setting to output graphics.

# TROUBLE SHOOTING GUIDE

## PROBLEM

## POSSIBLE CAUSE(S)

## SOLUTION(S)

You have tried all the possible solutions and graphics still do not appear.

Some players may not be compatible. The player MUST have DIRECT DIGITAL OUTPUT FROM THE POINT OF LASER PICK-UP TO OUTPUT ALL THE NECESSARY SUBCODES OR IT MAY NOT DECODE THE GRAPHICS.

Check with the dealer or manufacturer to make sure your player is compatible.

No video signal. Words don't appear on the TV monitor.

The television may not be switched to the proper video input channel.

Be sure the "VIDEO OUTPUT" jack (See PARTS AND FUNCTIONS diagram) on the rear panel of the DA-809G is connected to the "VIDEO INPUT" section of the TV monitor.

Be sure the television is set to the "VIDEO" mode (see your television's owners manual).

There is a loud "squealing" noise coming from speakers.

This noise is called "feedback". Feedback occurs for various reasons. For example, feedback can occur if the microphone is held too closely to, or pointed directly at, the speakers. Feedback can also occur if the microphone volume is too high or there is too much treble frequency being used.

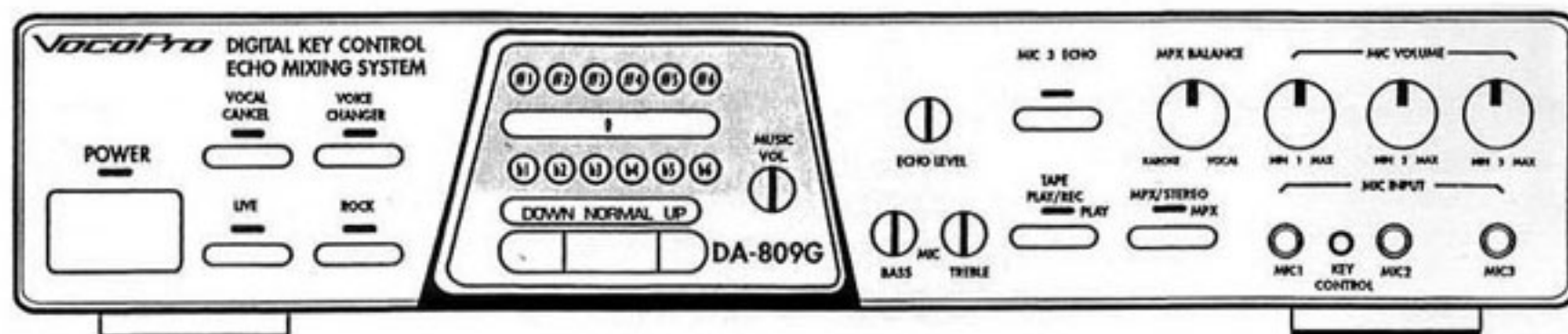
Turn down the microphone volume.

Turn down the treble control.

Hold the microphone away from the speakers.

# PARTS AND FUNCTIONS

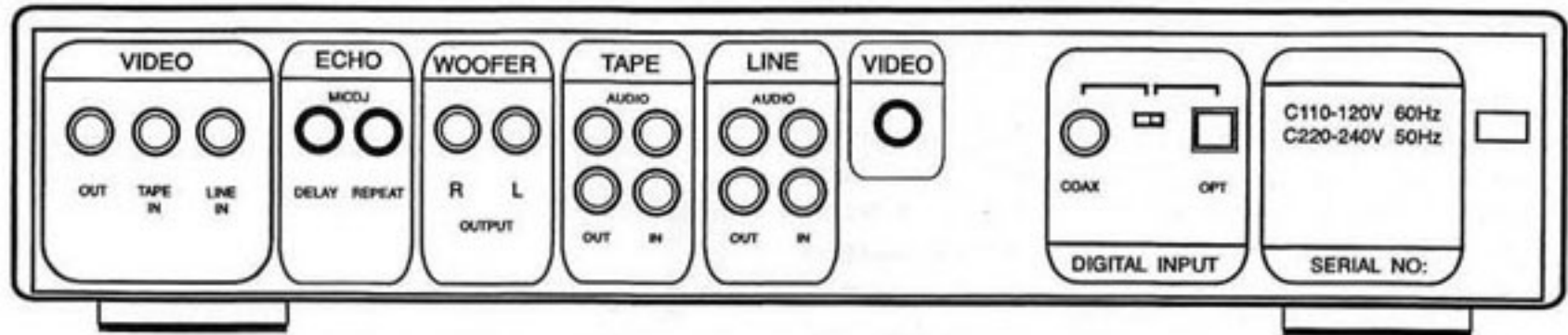
## (FRONT PANEL)



- ① **POWER SWITCH:** Press the switch once to turn on the power. Press it again to turn the power off.
- ② **VOCAL CANCEL:** Press the switch to reduce the vocal on regular CDs or Tapes. **NOTE:** This feature is designed to reduce the the vocal on non-karaoke software digitally, by comparing and cancelling the same signal between the right and left channel (where most vocal tracks are recorded). But since original recordings vary, some CDs will work while others may not, regardless of the equipment you are using.
- ③ **VOICE CHANGER:** Works like vocal cancel, but will only active when singing into the microphone.
- ④ **LIVE:** Press the switch to turn on the preset "LIVE" sound for the music.
- ⑤ **ROCK:** Press the switch to turn on the preset "ROCK" sound for the music.
- ⑥ **DIGITAL KEY CONTROL BUTTONS:** Press to transpose the key of the music. The key can be transposed by 6 steps up and 6 steps down from the original key in 1/2 tone increments. The new key is indicated by the indicator above the buttons. **NOTE:** The key control will reset automatically to natural, 4 seconds after each song.
- ⑦ **MUSIC VOLUME CONTROL:** Use this to control the music input level from the player(s).
- ⑧ **ECHO LEVEL CONTROL:** Adjusts the parameters of the digital echo effect.
- ⑨ **MICROPHONE TONE BASS/TREBLE CONTROL:** These controls are used to boost or cut the low and high frequency response of microphones.
- ⑩ **MICROPHONE 3 ECHO ON/OFF BUTTON:** To turn the echo on or off for microphone channel 3 for announcements.
- ⑪ **TAPE PLAY / REC SELECTOR:** Use this to select the music source input between line-in and tape-in on the back panel. **NOTE:** If the selector is switched to tape, the "play" indicator light will turn on. This will cut off the output signal of the tape-out on the back panel to avoid internal feedback.
- ⑫ **MULTIPLEX BALANCE SWITCH:** Use this to cancel or reduce the vocal track on Karaoke discs or tapes.
  - A. Make sure you are using a multiplex Karaoke disc or tape with the vocal track recorded on the right channel.
  - B. Press the MPX / STEREO switch, the MPX light will come on.
  - C. Reduce the vocal by adjusting the MPX balance to the left.
- ⑬ **MICROPHONE INPUT / KEY CONTROL INPUT AND MICROPHONE VOLUME CONTROL:** Controls microphone volumes 1, 2 and 3. Adjust the microphone input level from the microphone input jack 1, 2 and 3.
- ⑭ **KEY CONTROL JACKS:** Connection for key control microphone (changes key remotely - sold separately). Do not use this jack for any other purpose as doing so may damage the unit.

# PARTS AND FUNCTIONS




## (BACK PANEL)



- ① **VIDEO OUTPUT JACK:** Connects to the video input jack of your TV.
- ② **VIDEO INPUT JACK (TAPE):** If the player you've connected to the tape input/output terminals has video output (VCR, VCD, DVD, DVD-R, ect.) and you would like the DA-809G to switch the video between the 2 players, connect the video output of your player to this jack.
- ③ **VIDEO INPUT JACKS (LINE):** Do not connect anything to this jack if you are using the CD+G decoder. If you are **not** using the CD+G decoder, connect this to the video output jack of the player from the line input/output terminals.
- ④ **ECHO REPEAT CONTROL:** Use this to adjust the interval of repetitions of the microphone echo.
- ⑤ **ECHO DELAY CONTROL:** Use this to adjust the interval of repetitions of the microphone echo.
- ⑥ **SUB-WOOFER OUTPUT:** connect to the input of a Powered Sub-Woofer. (Up to two sub woofers).
- ⑦ **TAPE OUTPUT JACK:** Connect to the audio input of a recording device (tape deck, MD recorder, DAT deck).
- ⑧ **TAPE INPUT JACKS:** Connect to the audio output of an external player. (2)
- ⑨ **LINE OUTPUT JACKS:** Connect to the Input of an amplifier.
- ⑩ **LINE INPUT JACKS:** Connect to the audio output of an external player. (1)

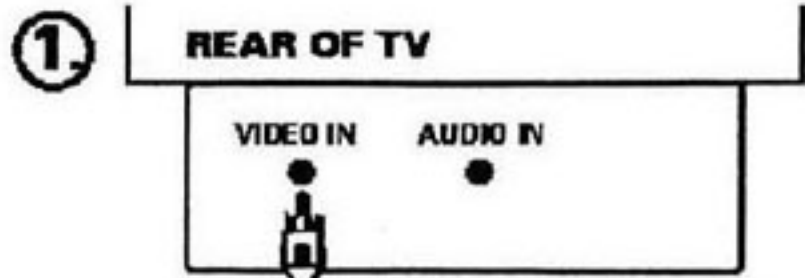
# PARTS AND FUNCTIONS

## (KEY CONTROL FUNCTION)

- ① **SHARP KEY:**  Press this key to RAISE the pitch of the song selection being played. This feature raises the pitch of the song one half-step for each time it is pressed, up to nine half-steps. The sharp key is part of the "key control" feature and will work with the CDG player and cassette deck. The key control feature will also work with external players when properly connected to the Bravo. (See "Using Effects and Changing the Key" and "Connecting Other Components to the Twister") **Note: The key control feature will not change the tempo of the song being played.**
- ② **NATURAL KEY:**  Press the natural key once to RETURN the pitch of the song selection being played to its "natural key" or pitch. The natural key is part of the "key control" feature and will work with the CDG player and cassette deck. The key control feature will also work with external players when properly connected. (See "Using Effects and Changing the Key" and "Connecting Other Components to the Bravo") **Note: The key control feature will not change the tempo of the song being played.**
- ③ **FLAT KEY:**  Press this key to LOWER the pitch of the song selection being played. This feature lowers the pitch of the song one half-step for each time it is pressed, to as many as nine half-steps. The flat key is part of the "key control" feature and will work with the CDG player and cassette deck. The key control feature will also work with external players when properly connected to the Bravo. (See "Using Effects and Changing the Key" and "Connecting Other Components to the Bravo") **Note: The key control feature will not change the tempo of the song being played.**

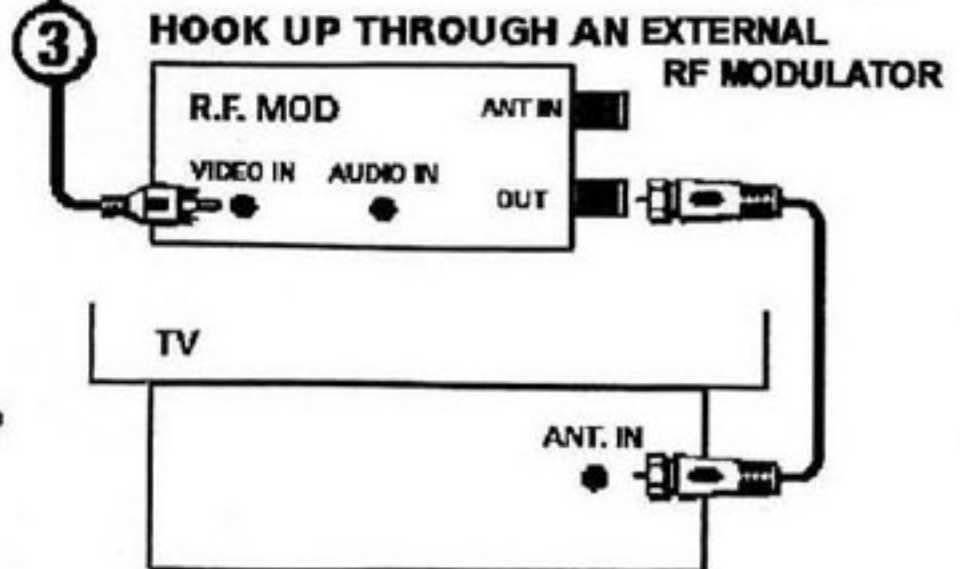
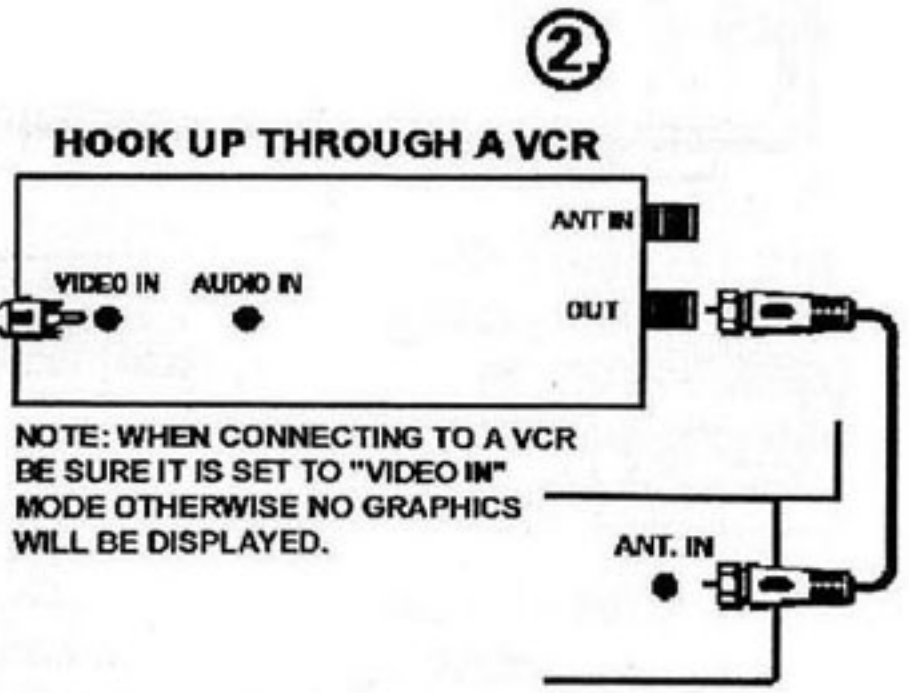
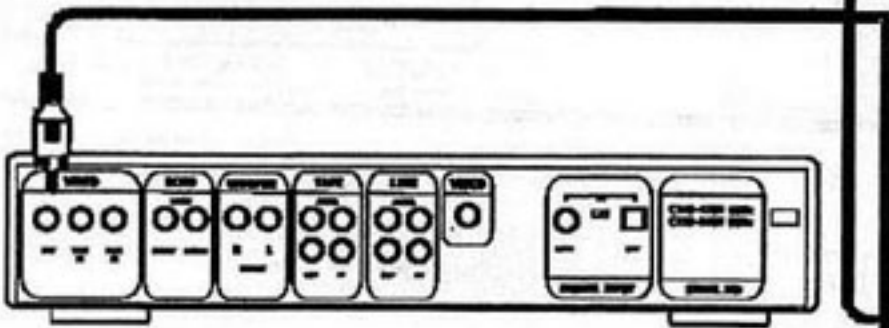
# CONNECTING A TELEVISION MONITOR

## 2 Ways To Hook-Up Video To Your T.V.



Option 1 is for TVs with video input(s) (RCA jacks)

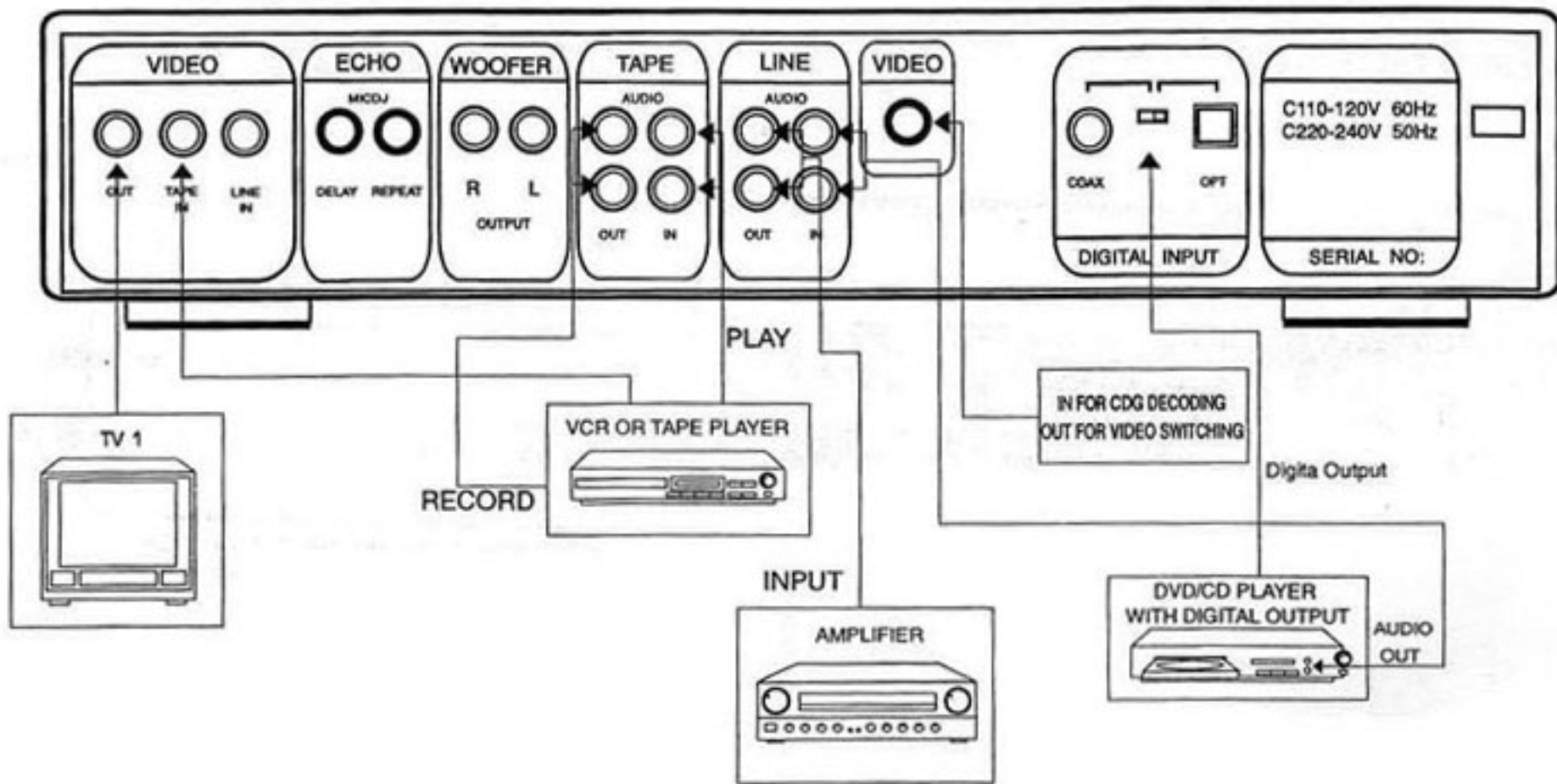
Option 2 is for TVs without video input(s). Use WITH YOUR VCR



For TV systems without video input(s).

# CONNECTION DIAGRAM

*for other components*





# SPECIFICATIONS

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## AUDIO INPUT

Micorphone .....	2.5MV/10K Ohms
Audio Input .....	150MV/50K Ohms
Audio Output .....	>250MV

## VIDEO

Tape/Line .....	1V P - P/75 Ohms
Frequency Response .....	20HZ - 20KHZ + 3db

## TONE CONTROL (MIC.)

Bass .....	+ 4db (100HZ) + 2 db
Treble .....	+ 6db (100HZ) + 2 db
Echo Delay Time .....	100 MSEC-200 MSEC
Key Control Range .....	+3/-3 music intervals (12 steps)

## Power Supply Others

Power Requirements .....	AC117V/60Hz
Power Consumption .....	7 Watts

## AC Outlet

Unswitched .....	2 (Total 250W)
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**Vocopro**

ULTIMATE CHOICE OF KARAOKE ENTERTAINMENT