



SMG - 299

COMPACT DISC + GRAPHICS

KARAOKE CENTER

OWNER'S MANUAL

Please read before using this unit.

The Singing Machine™ is a registered trademark of The Singing Machine Co., Inc.

WARNINGS

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

This CD player is made tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

Warnings:

- This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.

CAUTION

This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear panel.



CAUTION!

Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

IMPORTANT SAFETY INSTRUCTIONS

Careful attention is devoted to quality standards in the manufacture of your recorder, and safety is a major factor in its design. However, safety is also your responsibility. This section lists important information that will help you properly use and enjoy your recorder and accessories.

Read all the included safety and operating instructions before using your recorder. Follow them closely, and retain them for future reference.

Heed Warnings - Follow all warnings on the product and in the operating instructions.

Cleaning - Unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

Attachments - Do not use attachments/accessories not recommended by the product manufacturer, as they might create a hazard.

Water and Moisture - Do not use this product near water (for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool).

Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or able. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions for mounting, and use a recommended mounting accessory.



Carts - Move the product on a cart carefully. Quick stops, excessive force, and uneven surfaces may cause the product / cart to overturn.

Ventilation - Slots and openings in the cabinet provide ventilation, ensure reliable operation, and protect from overheating. Do not block or cover these openings, and do not place the product on a bed, sofa, rug, or other similar surface. Do not place the product in a built-in installation such as a bookcase or rack unless it provides proper ventilation as specified by the manufacturer.

Power Sources - Operate this product using only the power source indicated on its marking label. If you are not sure of your home's power type, consult your product dealer or local power company.

Polarization - This product is equipped with a polarized AC line plug (a plug having one blade wider than the other). This plug will fit in the power outlet only one way. This is a safety feature. If you cannot insert the plug fully into the outlet, try reversing the plug. If the plug still doesn't fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. If you need an extension, use a polarized cord.

Power-Cord Protection - Route power-supply cords so they are not likely to be walked on or pinched by items placed on or against them, playing particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

IMPORTANT SAFETY INSTRUCTIONS

Objects and Liquids - Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Servicing - Do not attempt to service this Product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards and will void your warranty. Refer all servicing to qualified service personnel.

Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or damaged in any way.
- If the product exhibits a distinct change in performance.

Replacement Parts - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check - Upon completion of service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

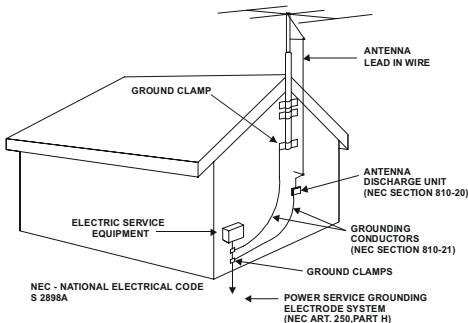
Wall or Ceiling Mount - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Power Line - Locate an outdoor antenna away from power lines.

Nonuse Periods - Unplug the product's power cord when you will not use it for an extended period.

Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, ground the antenna or cable system so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See the example below.



THE SINGING MACHINE KARAOKE GLOSSARY OF TERMS

In addition to all of the terminology associated with consumer electronics products, a few additional terms are used almost exclusively in karaoke. These terms are meant to familiarize you with the world of Karaoke. The features listed below, may not necessarily pertain to the particular model Singing Machine that you have. The following are some brief explanations:

Echo:

Echo adds depth and resonance to a singer's voice, without affecting the music. This echo is produced by creating minor controlled feedback in the singer's voice.

Multiplex Recording:

Our multiplex recordings contain 2 copies of the same song. One version is a stereo recording of the song without the lead singer. The second version is recorded with the music and background vocals on the left channel and the lead singer recorded on the right channel. This 'split track' recording allows you to control the volume of the lead singer by adjusting the balance control. You can sing a duet with the lead singer or use the lead singer as a guide as you learn the song, gradually fading them out with the balance control until you are able to sing the song on your own.

Automatic Voice Control (AVC):

When the AVC function is activated, the vocals on a multiplex recording are eliminated as soon as the singer begins singing into the microphone. When the singer stops singing, the vocals on the multiplex recording are automatically re-activated. This useful function is used primarily during practice sessions while a singer is learning a song. *Please note that the AVC function only works with multiplex recordings and not with standard audio recordings.*

Pitch Control:

This function controls pitch of music by controlling the speed at which a cassette tape plays back. By increasing the speed of the tape, the music sounds higher (sharp). By slowing the tape speed, the music sounds lower (flat).

Key Controller:

This Controller changes the key of the music (+ or - steps) to adjust to the singer's voice.

CDG:

This is an acronym for Compact Disc plus Graphics. You will also see variations CD+G, and CD+Graphics. This is a regular CD with information stored on a data track simultaneous to music. In laymen's terms, CDG has a video output for simple graphics (not full motion video). In the case of karaoke, the graphics function is used to store song lyrics, and display the lyrics in synch with music. In most cases, CDG software displays lyrics which change color as they are to be sung. A regular television is all that is required to display CDG lyrics.

CDG vs DVD vs VCD

Your Singing Machine is capable of playing all standard audio Compact Discs and CDG or CD+Graphics discs. CDG is a special type of encoding that includes software for displaying the lyrics on your television. As long as the manufacturer complies with the CDG standard, your Singing Machine will play any manufacturer's CDG disc. CDG is different than VCD or DVD. Your Singing Machine will not read VCD or DVD discs.

INTRODUCTION

Your SMG-299 Compact Disc + Graphics Karaoke Center will provide you with many years of fun and entertainment. It can let you be the "star" as you sing along with your favorite recordings and hear your voice with the music through the system's speakers.

This Karaoke Center is full of features, yet it is easy to use. Just a few simple instructions and you will become an expert.

Before you use your unit, please glance through this Manual to familiarize yourself with all the features available and the sections of the manual that describe their operation. Next go to the section for the specific operation you wish to perform.

For your easy reference, listed here are some of the main features of this Karaoke Center:

Lyrics on TV screen - displays the lyrics with the tempo of music when playing CD+G discs.

Automatic Voice Control - lets you replace the original singer's voice with your own voice when any prerecorded multiplex karaoke disc or tape is played. To activate, just rotate Mic Volume to a comfortable listening level, and Auto Voice Control for the best balance between playback and microphone levels.

Balance Control - lets you adjust the balance between the prerecorded original singer's voice and the music if you use a multiplex karaoke tape or disc.

Echo Control - lets you add an echo to enrich your voice for a concert hall effect.

Multiple Karaoke music center - it plays audio Compact Discs, CD+Graphics discs and Cassette tapes in its cassette deck.

Built-In Stereo Speaker - lets you share the music with your family or friends.

Auxiliary Input Jacks - let you connect another audio input source, such as a stereo VCR or a Radio Tuner, so you can sing along with another music source.

Auxiliary Output Jacks - let you connect another audio output component, such as an equalizer / booster or a PA system.

Extension Speaker Jack - allows extra speaker hook-up.

Three CDG Changer - allows up to 3 CDG Discs and/or audio Compact Discs to be played and programmed continuously and automatically.

CONTROL LOCATIONS

For Tape 1

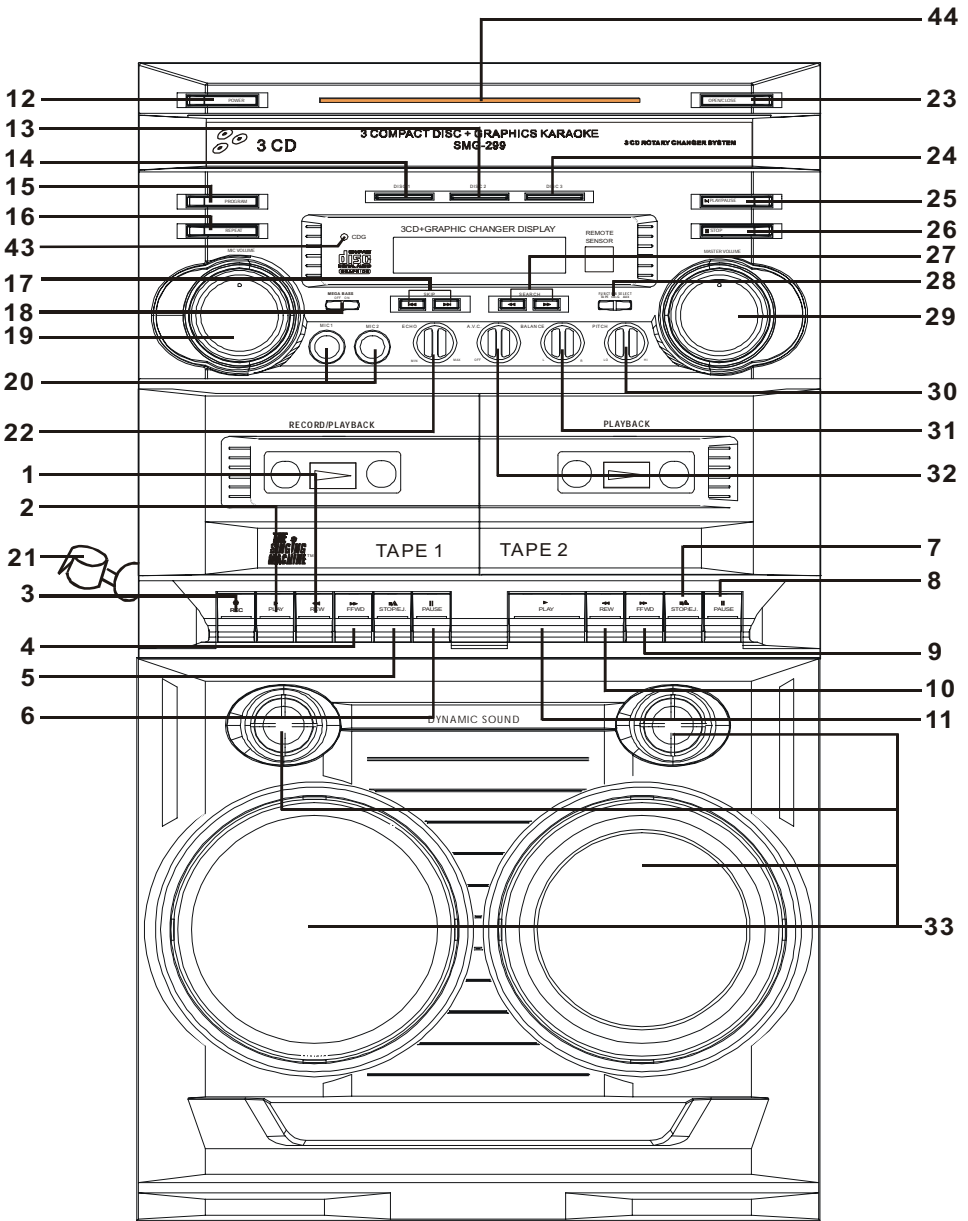
1. REWIND Button
2. PLAY Button
3. RECORD Button
4. FAST FORWARD (FFWD) Button
5. STOP/EJECT Button
6. PAUSE Button

For Tape 2

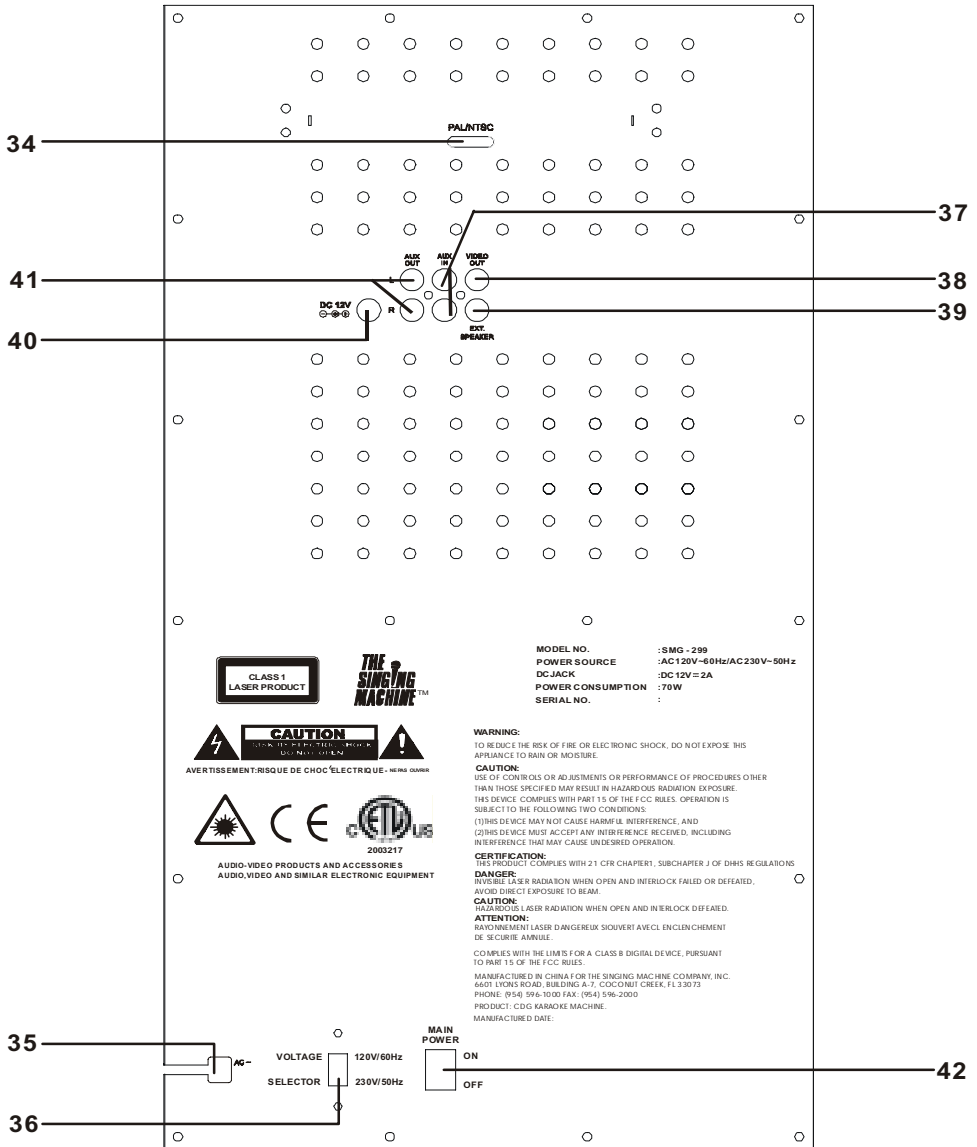
7. STOP/EJECT Button
8. PAUSE Button
9. FAST FORWARD (FFWD) Button
10. REWIND Button
11. PLAY Button
12. POWER Button
13. DISC 2 Button
14. DISC 1 Button
15. PROGRAM Button
16. REPEAT Button
17. SKIP Buttons
18. MEGA BASS Switch
19. MIC VOLUME Control
20. MIC Sockets

21. MIC Holder
22. ECHO Control
23. OPEN/CLOSE Button
24. DISC 3 Button
25. PLAY/PAUSE Button
26. STOP Button
27. SEARCH Buttons
28. FUNCTION SELECT
29. MASTER VOLUME Control
30. PITCH Control
31. BALANCE Control
32. AUTOMATIC VOICE Control (A.V.C.)
33. Hi Fi 2 Way Stereo Speaker System
34. PAL / NTSC Selector
35. AC POWER Cord
36. VOLTAGE SELECTOR (120V 60Hz / 230V 50Hz)
37. AUX IN Sockets (L / R)
38. VIDEO OUTPUT Socket
39. EXT. SPEAKER Socket
40. DC Jack (12V)
41. AUX OUT Sockets (L / R)
42. MAIN POWER ON / OFF Switch
43. CDG LED Indicator
44. POWER ON LED Indicator

CONTROL LOCATIONS

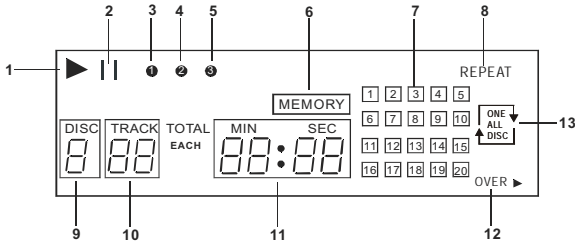


CONTROL LOCATIONS



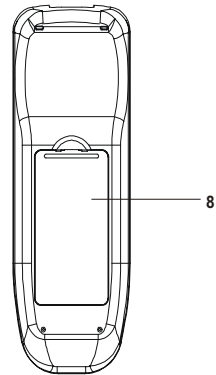
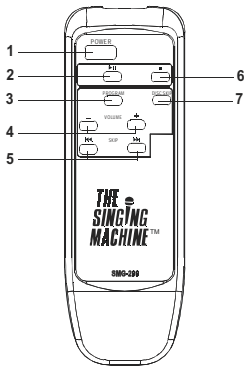
DISPLAY

LCD DISPLAY - ON THE UNIT



1. PLAY Icon
2. PAUSE Icon
3. DISC 1 Icon
4. DISC 2 Icon
5. DISC 3 Icon
6. MEMORY Icon
7. TRACK NUMBER Icon
8. REPEAT Icon
9. DISC Icon
10. TRACK Icon
11. TIME Icon
12. TRACK NUMBER OVER 20 Icon
13. REPEAT MODE Icon

REMOTE CONTROL OVERVIEW



1. POWER Button
Press the POWER Button to switch the system on/off.
2. PLAY/PAUSE Button
Starts or pauses playing a disc.
3. PROGRAM Button
Sets a program play.
4. MASTER VOLUME +/- Buttons
Increase and decrease the volume level.
5. SKIP Buttons
Press to select the next/previous title.
6. STOP Button
Stops playing a disc and clears the stored.
7. DISC SKIP Button
Press to advance the changer to the next CD/CDG disc selection.
8. Battery Compartment Lid

REMOTE CONTROL (BATTERIES NOT INCLUDED)

To operate

- Remove rear battery compartment lid, by sliding it away from the back cabinet.
- Install two alkaline AA batteries in the proper position with + & - polarities as indicated in the battery compartment. Be sure to replace the compartment lid.
- For trouble free use, point remote control directly at the SMG-299.
- If remote fails to operate, change the batteries.

MAKING THE CONNECTIONS

CONNECTING POWER - PLEASE BE SURE THE AC MAIN POWER SWITCH (LOCATED ON THE BACK PANEL) IS SWITCHED TO THE ON POSITION.

You can power the system from a standard 120V or 230V AC outlet by using the supplied power cord.

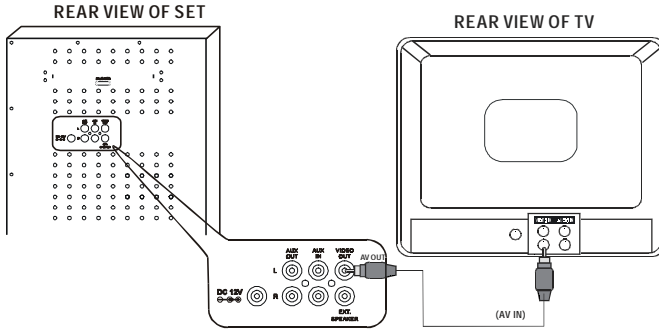
230V OPERATION: Requires changing the voltage setting from 120V to 230V and obtaining an adapter for appropriate the 230V service outlet to be used.

If you use 120V, please set the dual voltage selector switch at 120V; if using 230V, please set the dual voltage selector at 230V.

Caution: The supplied AC power cord, has a polarized plug that fits into the wall outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

CONNECTION TO TV SET

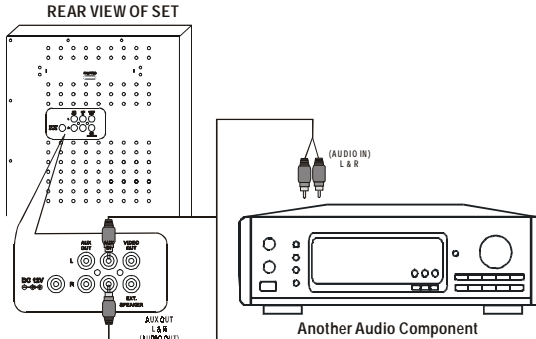
In order to display song lyrics from CDG also to appear on TV screen, you must connect the included video cable (yellow colored RCA single-plug) to the Video Output jack on the back of your SMG-299 unit. Then connect the other end of the video plug (yellow) to the Video Input jack of the television. If your television does not have the required Video Input, you will need an RF Modulator (Radio Frequency Modulator), which connects through your TV antenna or cable line and serves as Video Input.



VIDEO SYSTEM SELECTION: For North America country, video selector is preset for NTSC. For some European countries, video selector is preset for PAL.

CONNECTING AN AUDIO COMPONENT FOR INPUT

To connect another audio source (such as a Tuner, an A/V Receiver or a VCR) so you can sing along with its music, simply connect the Audio Output jacks (Red & White RCA jacks) to the system's AUX IN R & L jacks.



MAKING THE CONNECTIONS

Please have the sample CDG demo disc provided with your Singing Machine playing in the Singing Machine when you are making these connections so you will see the lyrics on the screen as soon as you have the setup completed correctly.

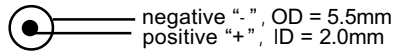
You must specify the source you wish to view when you are connecting the video out from the Singing Machine to either a TV or a VCR. Every TV and VCR manufacturer accomplishes the set-up a little differently. Even though every TV and VCR is a little different, the general idea is the same - if you have two sources of video signal (cable or antennae and Singing Machine), you have to specify which one is displayed on the screen.

If you have never used the video input RCA jack on your TV/VCR you should consult your TV/VCR user guide. If you don't manual for your TV or VCR, we suggest calling the customer service department for your manufacturer. They will be able to tell you very quickly how to configure your TV or VCR to display the video connection.

The three most common ways to set up the TV/VCR are:

- 1) A 'Video' button may be on the TV/VCR or on the remote control. Pressing 'Video' may display the input from your Singing Machine.
- 2) Try looking for a 'Video' channel between the regular channels on your TV/VCR. Do this by setting the channel on the TV/VCR to channel 2 then pressing the 'Down' channel button to see if there is a 'Video In' or 'Line In' between the lowest channel and the highest channel on your system.
- 3) The configuration may also be located in the set-up menu on the TV/VCR. Look for a section on 'Input Selection' where you might be able to choose the input source i.e. 'Cable/Ant.', 'Video 1', 'Line In' or 'Video In'.

DC JACK OPERATION: 12V to 14V maximum.

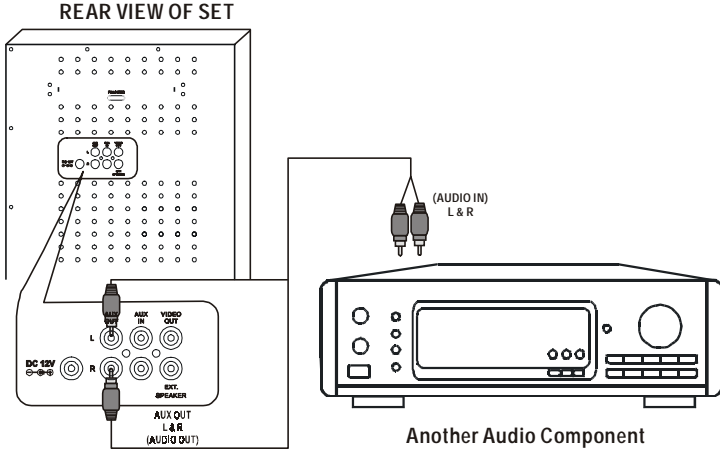


DC jack is provided for external DC power for use in car, boat or RV. Please be sure that inside of jack is connected to ⊕ 12V terminal and outside of jack is connected to ⊖ negative terminal. 12 Volts fused protected lighter style plug extension cord with adapter is recommended from Radio Shack catalogue # 273 - 1815.

MAKING THE CONNECTIONS

CONNECTING AN AUDIO COMPONENT FOR OUTPUT

To connect an audio component (such as a power amplifier or a PA system amplifier) so you can hear the system's music & vocal through it, plug the audio component into the AUX OUT jacks.



ATTENTION: ELECTRONIC MASTER VOLUME TOUCH CONTROL

To avoid damaging this control, please twist the master volume control gently to the right or left to obtain a desired level setting.

CD OR CD+G OPERATION

PREPARATION

- This unit is designed to play CD's bearing the identification logo. If CD's do not conform to the CD standard, they may not properly play.
- Fingerprints and dust should be carefully wiped off with a soft cloth. Wipe in a straight motion from the center to the outside of the disc.
- Never use chemicals, such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact disc. These chemicals will permanently damage the plastic surface of the disc.
- Always place the compact disc on the disc tray with the label facing upward. Compact discs can be played on only one side.
- To remove a disc from its storage case, press down the center of the case and lift the disc out, holding it carefully by the edges.
- Disc should be returned to their cases after use, protect them from dust and scratches.
- To prevent warping the disc, do not expose it to direct sunlight, high humidity or high temperatures or extended periods of time.
- Do not apply paper or write anything on either side of the disc. The inks used in some felt-tips pens, may damage the surfaces of the disc.

PLAYING CD or CD+G DISC

Reminders:

- Never place anything except a compact disc on the disc drawer. Foreign objects can damage the unit.
- Do not apply excessive force to disc drawer.
- Always place one disc to the disc drawer at a time.

TURNING POWER ON/OFF

To turn on the Karaoke center, press the POWER button. The red LED power indicator will light up. To turn off the system, press POWER button again, the POWER indicator will turn off. You can also use the POWER button located on the remote control to turn the system ON and OFF. You can use the POWER ON/OFF switch of the back panel to turn OFF the unit.

FUNCTION SELECT

Set the FUNCTION SELECT switch to CD+G.

LOADING A DISC

- Notice: When changer door is closed and SMG-299 is power up for play, to obtain information on what cavity is holding a CD, you must press the remote control skip button three times to confirm if cavity #1, #2 or #3 or all three depression indentation locations are holding discs. Disc position and count Icon is located on the LCD display.
- Press the OPEN/CLOSE button to open the CD compartment drawer. Place a disc into each of three CD holding cavities with the printing side facing upward and the shiny side facing down.
- Insert or change only one disc into each of the three CD depression indentation locations.
- To insert a disc into the third disc location, press the DISC 1 or DISC 2 button, and the third disc location will be rotated to the front automatically, then you can insert a disc into it.
- Press the OPEN/CLOSE button again to close the CD compartment. The LCD will display the total number of track. (If no disc is loaded, it will display "NO DISC").

PLAY/PAUSE Mode

To start playing, press the PLAY/PAUSE button, the LCD track indicator will display "1" and the PLAY icon will be displayed. (If a CD+G disc is detected, the CDG LED indicator will also turn on).

To temporarily stop playing, press the PLAY/PAUSE button, the PAUSE icon will be displayed.

To resume play, press this button again.

NOTE: CD+G Lyrics may double image on the TV Screen if play - pause - play - pause mode is continuously operated on any one CDG Song selection. To erase the double image the CDG selection will have to be restarted to the start of the song selection.

STOP Mode

If the STOP button is pressed in the course of playing, the disc will cease to play. (The total track number will be shown on the LCD display).

SKIP PLAY (For both CD and CDG discs)

When playing any CD disc or during stop mode, you can skip up or down to your desired track number by pressing the SKIP buttons (◀◀SKIP▶▶).

SEARCH (For CD Audio discs only, SEARCH mode will not operate for CD+Gs.)

When playing any Audio CD disc, you press the SEARCH buttons (◀◀SEARCH▶▶), the system will search at high speed in the forward or reverse direction. By releasing the button, normal play will continue.

REPEAT PLAY

- To repeat the track currently playing, press the REPEAT button once, the display will show REPEAT ONE, then the track will be repeated.
- To repeat all the tracks of particular disc, press the REPEAT button twice, the display will show REPEAT ONE DISC. Press the PLAY/PAUSE button to begin, then all the tracks will be repeated on this particular disc.
- To repeat all the tracks of all discs which have been inserted in the CD drawer, press the REPEAT button three times, the display will show REPEAT ALL DISC. Press the PLAY/PAUSE button to begin, then all the tracks will be repeated on all discs.
- To clear the repeat function, press the REPEAT button again, the REPEAT icons will turn off.

PROGRAM PLAY (Back up memory not provided)

- Use this PROGRAM key to program and play back songs in a preselected order.
- Select the desired DISC by pressing the DISC 1, DISC 2 or DISC 3 button, the desired DISC number will show on the LCD display.
- Any particular DISC location, programming should be done in the STOP mode only. Press the PROGRAM button once, the display will show the MEMORY icon and the "P - 01" icon. Then press the DISC 1, DISC 2 or DISC 3 button to select a desired disc and press the SKIP buttons (◀◀SKIP▶▶) to select a desired track. Then press the PROGRAM button to confirm entry. You can repeat the same steps up to a maximum of 32 tracks, and this programming procedure can be repeated on each of the selected DISC.
- To clear all the programmed memories, press the STOP button.
- Note: When the power is turned off all memory selections will be erased.

MEGA BASS

When playing CD disc or Cassette Tape, you can switch the MEGA BASS switch to the right hand side, the mega bass effect will be turned on and switch MEGA BASS switch to the left hand side, the mega bass effect will be turned off.

CASSETTE OPERATION

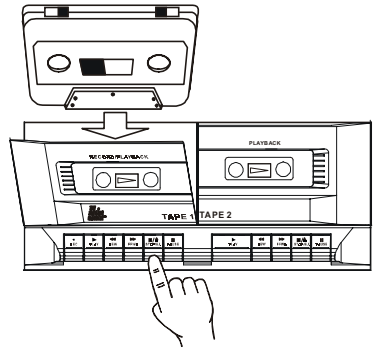
Loading and Unloading Cassettes

Follow these steps to load and unload

1. Press the STOP/EJECT button.
2. Insert a cassette with desired side facing you, tape surface down. Avoid touching tape.
3. Close cassette holder/tape deck cover.

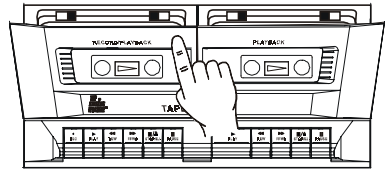
To ensure firm locking of cassette holder/tape covers, please press the cassette door(s) at the center point (or the maximum right position) until a 'click' sound is heard.

Note: To unload, press STOP/EJECT button, remove cassette and close cover.



PLAYBACK

1. Turn on POWER (1).
2. Switch FUNCTION SELECT to TAPE, then load cassette(s) into Tape Deck 1, Tape Deck 2 or both Decks (5).
3. Depress PLAY button(s)(9) of Deck 1 or Deck 2.
4. Adjust MASTER VOLUME (6), and BALANCE (8) controls to your pleasure.
5. Adjust PITCH (Tape Speed) (7) control if desired. This will alter pitch and tempo. If music is too high for your voice, slow down the tape and it will lower the pitch. If too low, speed up tape and pitch will raise. When the pitch knob is centered the button a second time, you will feel a detent click.
6. To stop tape on either Deck, press STOP/EJECT button (10) on that Deck once. (Pressing will eject the tape.) When tape reaches its end, that deck will automatically stop and its PLAY button will be released.



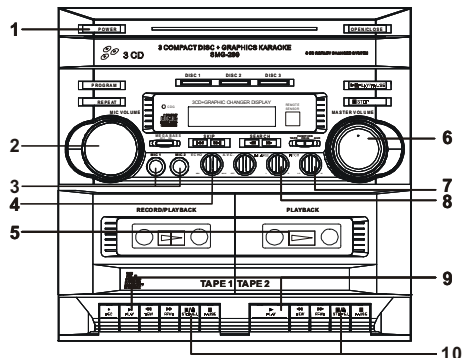
CONSECUTIVE PLAY

1. Turn on POWER (1).
2. Switch FUNCTION SELECT to TAPE, then load cassettes into both decks (5).
3. Depress PLAY button of Deck 2, which will begin to play.
4. Depress PAUSE button of Deck 1, then the PLAY button of Deck 1. When Deck 2 stops, either by the pressing of the STOP/EJECT button or because tape reaches its end, Deck 1 will begin to play.

Microphones/Echo

When either or both microphones are plugged into the Microphone Jacks (3), their output is mixed with the playback from cassette tapes. Adjust MIC VOLUME (2) for best balance between playback and microphone levels.

Adjust ECHO (4) to add depth and richness to vocals.



SING ALONG WITH A TAPE

1. Following instructions for **PLAYBACK**.

- a) Turn on **POWER** (1).
- b) Switch **FUNCTION SELECT** to **TAPE**, then load cassette(s) into Tape Deck 1, Tape Deck 2 or both Decks (5).
- c) Depress **PLAY** button(s)(9) of Deck 1 or Deck 2.
- d) Adjust **MASTER VOLUME** (6), and **BALANCE** (8) controls to your pleasure.
- e) Adjust **PITCH** (Tape Speed) (7) control if desired. This will alter pitch and tempo. If music is too high for your voice, slow down the tape and it will lower the pitch. If too low, speed up tape and pitch will raise. When the pitch knob is centered the button a second time, you will feel a detent click.
- f) To stop tape on either Deck, press **STOP/EJECT** button (10) on that Deck once. (Pressing will eject the tape.) When tape reaches its end, that deck will automatically stop and its **PLAY** button will be released.

2. Follow instructions for **MICROPHONES/ECHO**. When either or both microphones are plugged into the Microphone Jacks (3), their output is mixed with the playback from cassette tapes. Adjust **MIC VOLUME** (2) for the best balance between playback and microphone levels.

Adjust **ECHO** (4) to add depth and richness to vocals.

3. Adjust **MASTER VOLUME**, **ECHO** AND **PITCH** Controls to your satisfaction. Your voice will be combined with the music and will be heard through the loudspeakers.

4. With Singing Machine or similar multiplex cassettes, you can sing duets along with the recorded artist and background music. You can also eliminate the vocal track and do a solo performance with the background music by turning the **BALANCE** Control.

RECORDING TO TAPE

1. Load a blank cassette in Tape Deck 1.
2. Load a Singing Machine or any other prerecorder tape into Tape Deck 2.
3. Start Tape Deck 2 by pressing the **PLAY** button.
4. Press both **RECORD** and **PLAY** buttons of Tape Deck 1 at the same time. The combined output of your voice and the playback of Tape Deck 2 will be recorded on the blank tape in Tape Deck 1.

RECORDING - CD or CDG Disc(s)

(Audio only, Video is not possible)

1. Load a blank cassette in Tape Deck 1.
2. Load a Singing Machine or any other prerecorded CD/CDG disc into the CD compartment drawer.
3. Switch **FUNCTION SELECT** to **CD+G** position. Press the **SKIP** button to the desired track number you wish to record from.
4. Press the **PLAY** button to start playback on the CD player. Press both **RECORD** and **PLAY** buttons at the same time to begin recording. The combined output of your voice and the playback of the CD or the CDG sound track will be recorded on the blank tape.

ADDING EXTRA VOICE(S) / DUBBING OR COPYING

1. Load your previously recorded tape into tape Deck 2.
2. Load another blank tape into Tape Deck 1.
3. Follow Steps 4 and 5 for Recording Sing Along. Your voice will again be added, allowing you to sing duets with your own voice. If you use the microphone input for an instrument, you can record that at a separate time than your voice performance. If you simply want to make a dub or copy, load the tape you wish to copy in Tape Deck 2 and a blank tape in Tape Deck 1. Do not plug in the microphones.

PUBLIC ADDRESS - USING THE SMG-299 AS A SYSTEM

1. Connect the supplied Microphone to either one of the **MIC** input sockets.
2. Press the **POWER** switch to turn the unit on.
3. Switch the **ON/OFF** switch located on the Microphone to the **ON** position and speak or sing to the Microphone. The Microphone sensitivity and loudness could be adjusted as required by turning the **MIC VOLUME** control and/or the **MASTER VOLUME** control.
4. To add depth or ambiance to your voice, adjust the **ECHO** control until the desired effect is obtained.

NOTE: To prevent feedback or whistling from occurring, please be sure that the microphone is not too close to the SMG-299 unit.

CARE AND MAINTENANCE

POWER SWITCH

After using the SMG-299, turn off the power by pressing the power switch.



To prevent fire or shock hazard, disconnect your stereo system from the AC power plug when cleaning.

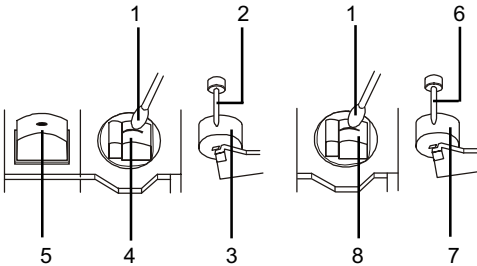
CLEANING THE UNIT

Use a clean soft cloth moistened with plain luke-warm water and wring dry. Never use benzol, benzene or other strong chemical cleaners since these could damage the finish or your unit. Do not use spray cleaners on your Singing Machine. It is important that no liquid reaches the inside of the unit.

CLEANING TAPE HEAD

When the tape is running, magnetic tape residue, powder and dust naturally accumulate on the tape deck heads, capstan and pinch roller, when they become too dirty, you will find:

- Sound quality deteriorates.
- The output sound level drops.
- The previous recording is not completely erased.
- Recording is not performance from the cassette section, periodically clean the heads, pinch rollers and capstans whenever an accumulation of dust and red-brown oxide particles is noticed. To do this, open the cassette compartments. Carefully rub each head (4,5,8), pinch roller (3,7) and capstan (2,6) with a cotton swab (1) moistened with isopropyl alcohol or special head-cleaning fluid.



Proprietary tape head cleaners are available from most HI-FI retail outlets.

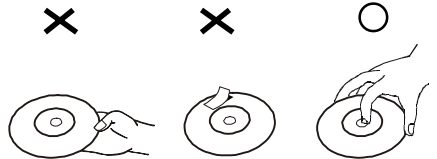
NOTE

- * Screwdrivers and other metal objects should never be allowed to come in contact with tape heads. These will scratch the sensitive surface causing damage to your tapes.
- * Magnets or magnetized objects should not be placed near tape heads.

COMPACT DISC

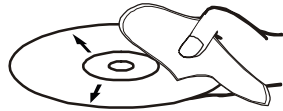
Handling Disc

Although the music tracks in the disc are covered with a protective layer, it is still advisable to treat the disc carefully. Ensure that you always pick up discs by the edge, and put them back in their holders immediately after use.



CLEANING DISC

Cleaning will not normally be necessary. However, should fingerprints, dust or dirt appear, you can wipe them off with a soft, lint-free cloth. Wipe the disc in a straight line from center to edge. You can moisten the disc first if necessary.



NOTE: Do not use the detergent or abrasive cleaning agents, for they can damage the disc.

CD PLAYER

The player mechanism is fitted with self-lubricating bearings and must not be oiled or greased.

CLEANING THE CD LASER LENS

Sometimes dust or other foreign matter can cause problems with the CD/CDG playing properly. Use a CD-lens cleaning disc according to the cleaning disc manufacturer's instructions. We recommend you clean your laser lens every 10 hours of use or every month whichever comes first. If cleaning the lens doesn't correct your problem, check the CD/CDG disc to be sure it is free of dust, dirt or scratches.

TROUBLE SHOOTING GUIDE

If you have followed the instructions and are having difficulty operating the unit, locate the **PROBLEM** in the left column below. Check the corresponding **POSSIBLE CAUSE** column to locate the remedy to your problem.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power when POWER is on.	No power plug connection at the AC outlet.	Insert the power plug into the AC outlet.
	The MAIN POWER switch on the back panel is off.	Switch on the MAIN POWER.
No sound.	Volume control is set to minimum.	Turn up the MASTER VOLUME.
	The wrong function is selected.	Select the correct function.
CASSETTE Unsteady tape sound.	Dirty capstan.	Clean capstan.
	Irregular cassette tape winding.	Replace tape.
	Pitch knob may be in wrong position.	Adjust Pitch knob.
Cannot record.	The erasure prevention tabs are broken out.	Replace tape or cover tab openings with adhesive tape.
	Play button and Record button were not pressed down simultaneously.	When recording, make sure that both the Record and Play buttons are pressed down at the same time.
Recorded tape sound is distorted.	Dirty head.	Clean capstan.
	Faulty cassette tape.	Replace tape.
Cannot copy from DECK 2 to DECK 1.	Unrecorded tape inserted into DECK 2.	Insert a pre-recorded tape to DECK 2.
	PLAY/RECORD function selector B in the wrong Mode.	Set the Function button to TAPE Mode.
CD PLAYER Cannot work normally.	Disc is inserted upside down.	Insert disc correctly.
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc seriously warped.	Use a new disc.
	A nonstandard disc is inserted.	Use only brand name disc.
	Moisture has formed inside the CD deck.	Wait about 20 to 30 minutes to let it dry out.
No song lyrics appear on screen.	Video cable is not connected properly to the TV.	Connect the video cable to the system's VIDEO OUT and to the TV VIDEO IN.
	Source selector on TV is not set to VIDEO.	Using your TV remote to select VIDEO input.
	TV does not have video line input.	Connect from VIDEO OUT of the system to the VIDEO IN of your VCR or connect to an RF modulator and then to the TV cable input.
Song lyrics leave double image during play.	Operating play-pause-play-pause continuously on a song selection will cause double image.	Return to the start of the song selection to reset or clear video screen.
Blurred TV screen shown.	Incorrect setting of PAL/NTSC switch.	Select the correct mode on the back panel.

SPECIFICATIONS

STEREO AUDIO SECTION: OUTPUT POWER (MAXIMUM) OUTPUT IMPEDANCE MONO EXTENSION/EXTERNAL SPEAKER	10 WATTS x 2 4 ohms 10 WATTS NOMINAL
CD PLAYER SECTION: FREQUENCY RESPONSE SIGNAL - TO - NOISE RATIO WOW AND FLUTTER D - A CONVERSION NUMBER OF PROGRAMS SAMPLING SYSTEM	40 Hz - 20KHz (+/- 3 dB) 75 dB (A-WTD) IMMEASURABLE 1 - BIT DAC 32 STEPS RANDOM ACCESS PROGRAMMING 8 TIMES OVER SAMPLING
CASSETTE DECK SECTION: WOW AND FLUTTER FREQUENCY RESPONSE TAPE SPEED	0.35% (WRMS) 125Hz - 6.3 KHz (+/- 5dB) 4.75cm/Sec
POWER SECTION: AC INPUT POWER DC JACK	Selector AC 120V 60Hz / 230V 50Hz DC 12V / 2A AC TO DC ADAPTER (NOT INCLUDED)
DIMENSIONS (H X D X W)	21.7 x 14.3 x 12.8 inches / 55.1 X 36.3 X 32.5 cm
WEIGHT	24.0 lbs. / 10.9 kg.
ACCESSORIES	1. Pre - recorded Karaoke CD+G disc 2. AV Cable 3. Dynamic Microphone

Specifications are typical, individual units might vary. They are subject to continuous improvement without notice and without incurring any obligation.

NOTES

NOTES

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