THE SINGING MACHINE®
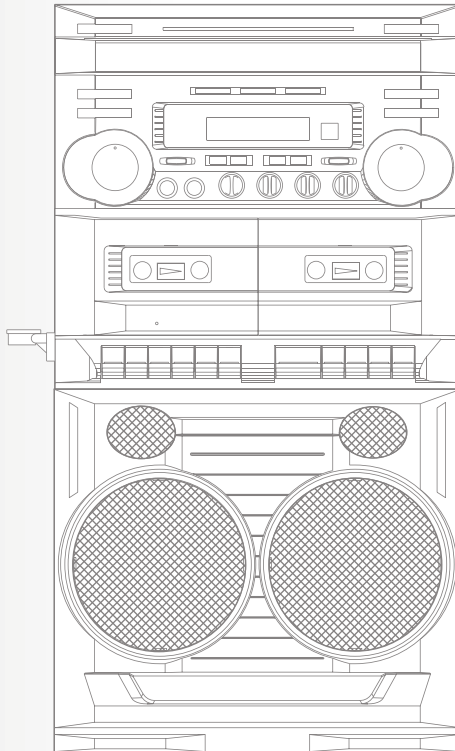
Instruction Manual

THE LEADER IN HOME KARAOKE™

SMG-301

- Compact Disc + Graphic Karaoke Center

Please read before using this unit.

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.

CAUTION
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

DRIPPING WARNING
The product shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the product.

VENTILATION WARNING
The normal ventilation of the product shall not be impeded for intended use.

This CD player is made and 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.

CLASS 1 LASER PRODUCT

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

IMPORTANT SAFETY INSTRUCTIONS

1. **Read Instructions** - All the safety and operating instructions should be read before the product is operated.

2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.

3. **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.

4. **Follow instructions** - All operating and use instructions should be followed.

5. **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior only. Do NOT attempt to clean the inside.

6. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. **Water and Moisture** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement, or near a swimming pool, and the like.

8. **Accessories** - Do not place this product on an unstable cart, stand tripod, bracket, or table. 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. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

10. **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

11. **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instruction.

12. **Grounding or Polarization** - This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

    Alternate Warnings - This product may be equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. 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 replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. **Protective Attachment Plug** - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

IMPORTANT SAFETY INSTRUCTIONS

15. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA70, provides information with regard to 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 figure:
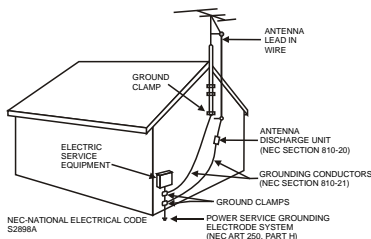
16. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

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

19. Object and Liquid Entry - 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.

20. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a) When the power-supply cord or plug is damaged,
b) If liquid has been spilled, or objects have fallen into the product,
c) If the product has been exposed to rain or water,
d) 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 its normal operation.
e) If the product has been dropped or damaged in any way, and
f) When the product exhibits a distinct change in performance - this indicates a need for service.

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

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

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

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

INTRODUCTION

Your SMG-301 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 easy to use, yet full of features with a compact design. 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.

Auto 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 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.

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

Auxiliary Input Jacks - lets 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 - lets 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. DISPLAY Button
16. DISC SKIP Button
17. CDG LED Indicator
18. SKIP Buttons
19. MEGA BASS Button
20. MIC VOLUME Control

21. MIC Jacks
22. ECHO Control
23. MIC Holder
24. STANDBY LED Indicator
25. OPEN/CLOSE Button
26. Model Number
27. DISC 3 Button
28. PLAY/PAUSE Button
29. STOP Button
30. REPEAT Button
31. FUNCTION SELECT
32. MASTER Volume Control
33. PITCH Control
34. BALANCE Control
35. AUTO VOICE CONTROL (A.V.C.)
36. PROGRAM Button
37. Hi Fi 2 Way Stereo Speaker System
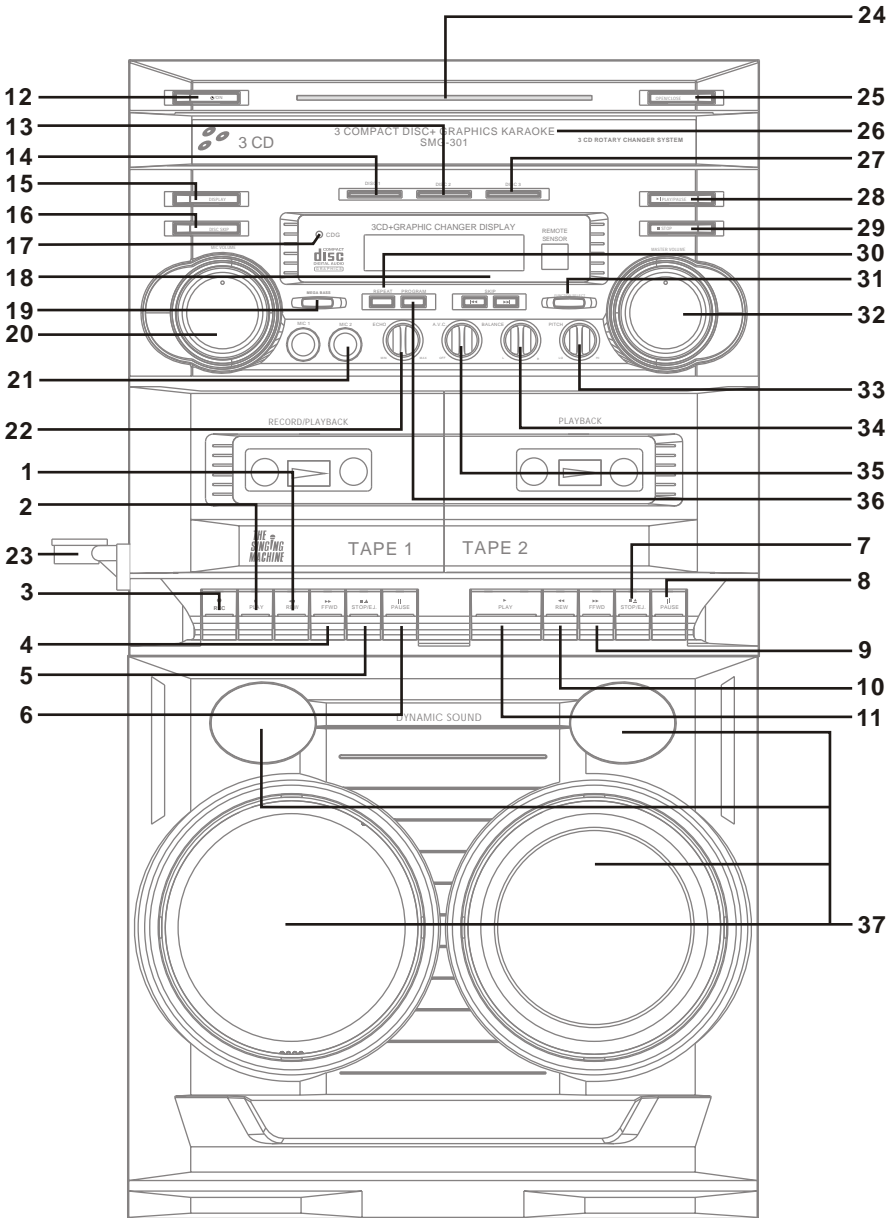38. AUX OUT Jacks (L / R)
39. AUX IN Jacks (L / R)
40. VIDEO OUT Jack
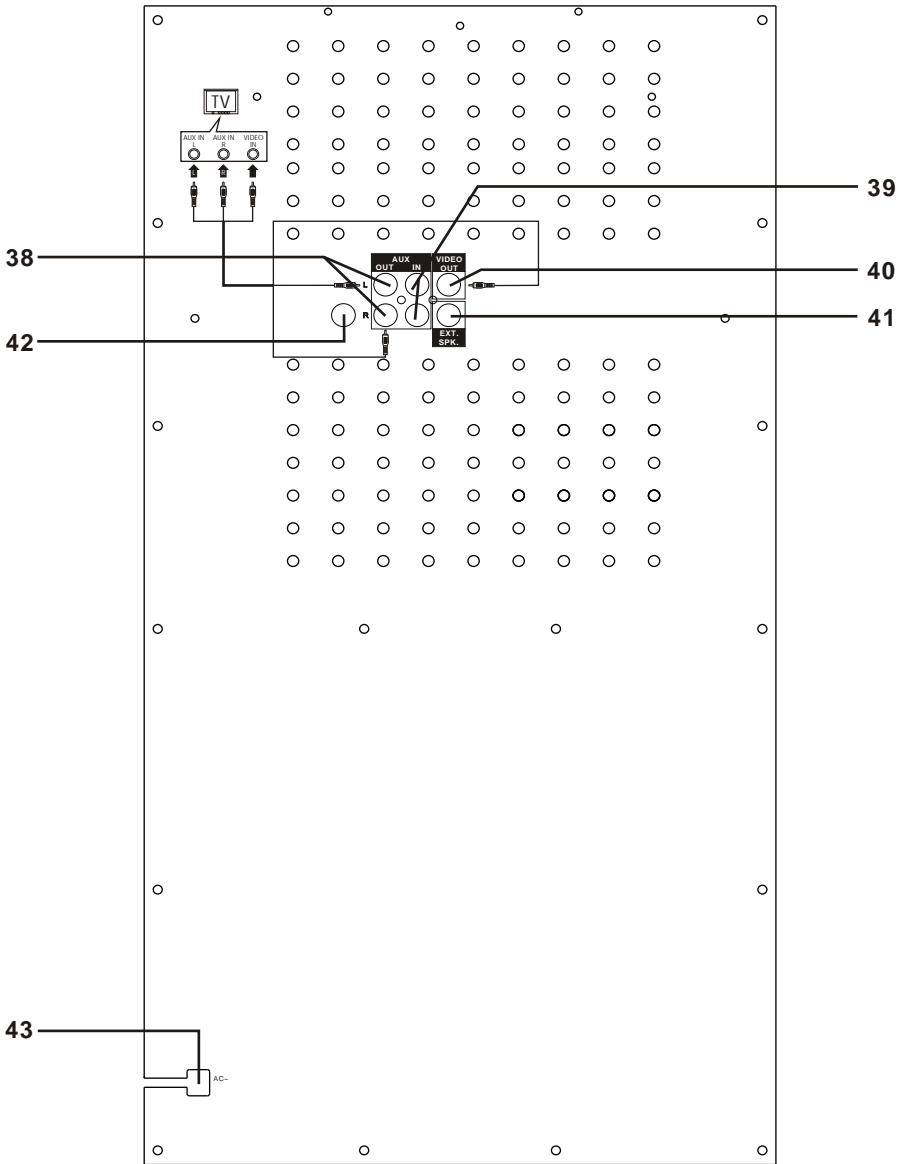41. EXT. SPEAKER Jack
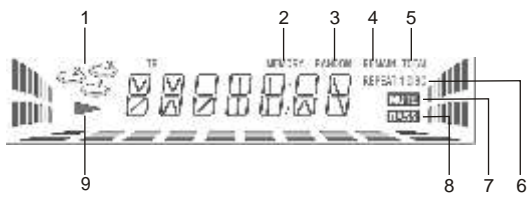42. DC Jack (12V)
43. AC POWER Cord

CONTROL LOCATIONS

CONTROL LOCATIONS

DISPLAY

VFD DISPLAY - ON THE UNIT

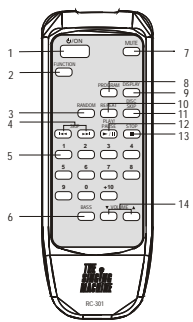1. DISC Icon
2. MEMORY Icon
3. RANDOM Icon
4. REMAIN TRACK Icon
5. TOTAL TRACK Icon

6. REPEAT Icon
7. MUTE Icon
8. BASS Icon
9. DISC PLAY Icon

REMOTE CONTROL OVERVIEW
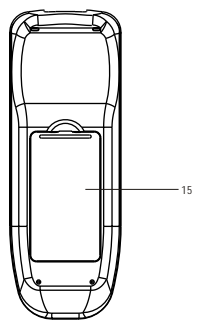
1. POWER Button
2. FUNCTION Button
3. RANDOM Button
4. SKIP Buttons |◄◄ / ►►|
5. Number Buttons
6. BASS Button
7. MUTE Button
8. PROGRAM Button

9. DISPLAY Button
10. REPEAT Button
11. DISC SKIP Button
12. PLAY/PAUSE Button ► / ❚❚
13. STOP Button ■
14. VOLUME Buttons
15. 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-301.
● If remote fails to operate, change the batteries.
(This Remote Control is not compatible with universal remote controls.)

MAKING THE CONNECTIONS

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-301 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.

**REAR VIEW OF
SINGING MACHINE**

REAR VIEW OF TV

**VIDEO OUTPUT
(Yellow Jack)**

**VIDEO INPUT
(Yellow Jack)**
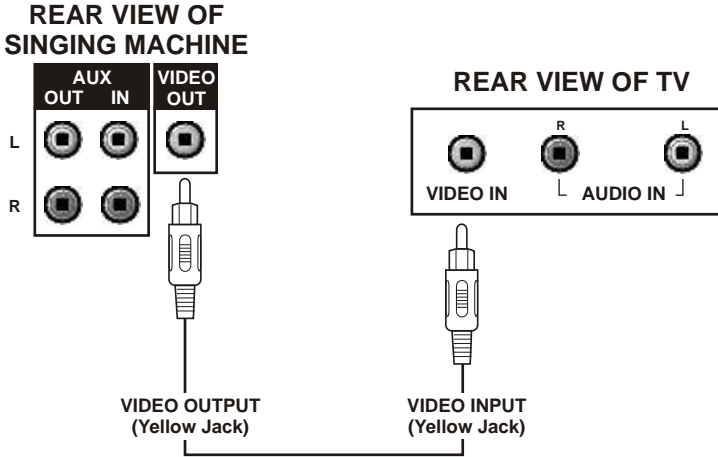
CONNECTING AN AUDIO COMPONENT FOR INPUT

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

**REAR VIEW OF
SINGING MACHINE**

**ANOTHER
AUDIO COMPONENT**

**AUX INPUT
R
(Red Jack)**

**AUX INPUT
L
(White Jack)**

**AUDIO OUTPUT
R
(Red Jack)**

**AUDIO OUTPUT
L
(White Jack)**

E8
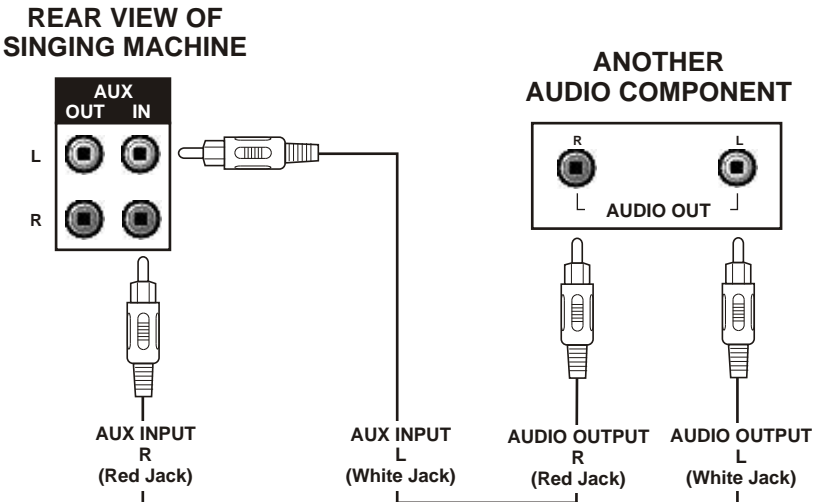
MAKING THE CONNECTIONS

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 antenna 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 have the 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.

negative "-", OD = 5.5mm
positive "+", ID = 2.0mm
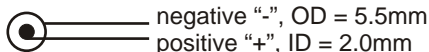
A DC jack is provided for external DC power for use in a car, boat or RV. Please be sure that inside of the jack is connected to ⊕ 12V side and the outside of jack is connected to ⊖, negative side battery. 12 volts fuse protected lighter style plug extension cord with adapter is recommended.

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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 Singing Machine's music & vocal through it, plug the audio component into the AUX OUT jacks.

**REAR VIEW OF
SINGING MACHINE**

**ANOTHER
AUDIO COMPONENT**

AUX
OUT   IN

L

R

R   L

⌐   ⌐
AUDIO IN
L   ⌐

AUX OUTPUT
L
(White Jack)

AUX OUTPUT
R
(Red Jack)

AUDIO INPUT
R
(Red Jack)

AUDIO INPUT
L
(White Jack)
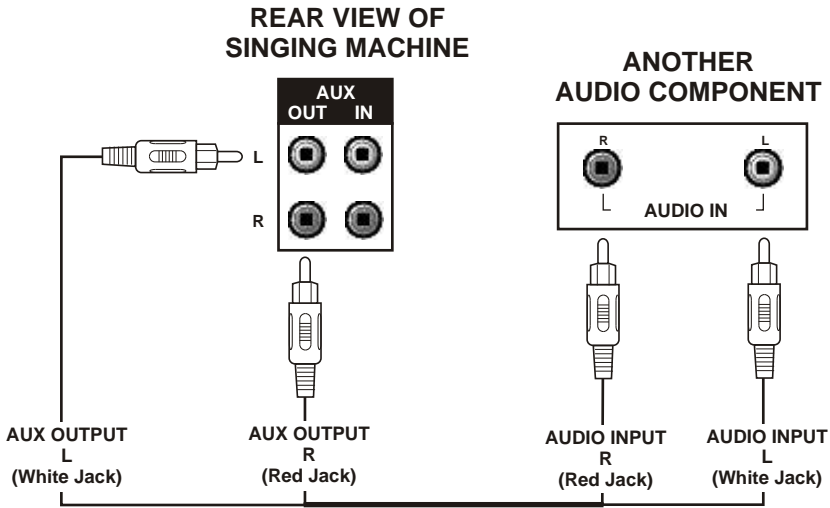
ATTENTION: ELECTRONIC MASTER VOLUME TOUCH CONTROL

To avoid damaging this control, please twist the master volume control gently to the right or left to obtain a desired level setting. This is an electronic knob and is not designed to turn 360 degree. This knob will only turn a half inch in either direction.

CD OR CD+G OPERATION

∗ Warning - Tapping or dropping the microphone while it is on can permanently damage your microphone. Resist the urge to swing the microphone around by the cord!

PREPARATION

- This unit is designed to play CD's bearing the identification logo " 〔COMPACT DISC DIGITAL AUDIO〕 ". If CD's do not conform to the CD standard, they may not play properly.
- Fingerprints and dust should be carefully wiped off with a soft cloth. Wipe in a straight motion from the center of the disc to the outside edge.
- 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 on the center of the case and lift the disc out, holding it carefully by edges.
- Discs should be returned to their cases after use to protect them from dust and scratches.
- To prevent warping the disc, do not expose it to direct sunlight, high humidity or high temperatures for 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.
- Do not place more than one disc in each location of the drawer.

TURNING POWER ON/OFF

To turn on the Karaoke center, press the POWER button. The VFD will light up. To turn off the system, press the POWER button again, the VFD will turn off. You can also use the POWER button located on the remote control to turn the system ON and OFF.

FUNCTION SELECT

Press FUNCTION SELECT button to select the "CD" function.

LOADING A DISC

1. Press the POWER button to turn the power on.
2. Press the FUNCTION button to select the "CD" function. "CD" blinks on the display, then "no disc" appears.
3. Press the CD OPEN/CLOSE button, the disc tray slides out.
4. Place each disc in the tray with the label facing up.
5. Press the DISC SKIP button to turn the carousel to the next tray position.

Note: Do not touch the carousel while it is rotating.

6. Press the CD OPEN/CLOSE button again to close the disc tray.

(Refer to the Trouble Shooting Guide on page E19 if a disc is loaded but the total tracks do not appear.)

CD OR CD+G OPERATION

ENGLISH

SELECT DISC PLAY
7. Press one of the disc select button (DISC 1, DISC 2, DISC 3) to select the disc to be played. The symbol for PLAY " ▶ " and "1 DISC" appears. Play starts from the first track of the selected disc. The track number and elapsed playing time for the current track are displayed. After play stops at the end of the last track of the selected disc, the total number and total playing time of the selected disc and "TOTAL" will appear.

Note: If the disc is loaded with label facing downward, or if a badly scratched disc is loaded, the player will search for a playable disc. If a playable disc is not found, "no disc" appears on the display.

8. Press the STOP ■ button at any time to end disc play.

TEMPORARILY STOPPING PLAY
Press the PLAY/PAUSE ▶ / ‖ button. " ▶" and elapsed playing time blink on the display. To resume play, press the button again.

SKIP PLAY(For both CD and CDG Discs)
To skip to track 6 while track 3 is playing, press the SKIP▶▶‖ button repeatedly unit " 6 " appears in the TRACK section on the display.
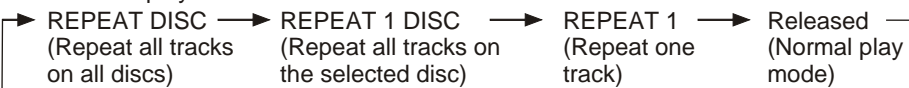To skip back to track 3 while track 6 is playing, press the SKIP ‖◀◀ button repeatedly until " 3 " appears.
Note: Skip functions are disabled in Program Mode.

SEARCH (For audio CD only, SEARCH mode will not operate for CD+Gs)
When playing any audio CD, press and hold the SKIP buttons (‖◀◀ SKIP ▶▶‖), the system will search at high speed in the forward or reverse direction. Normal play will continue when you release the button.

REPEAT PLAY
This unit has three different repeat modes. Press the REPEAT button on the remote control repeatedly to select the desired mode in the following sequence. The selected repeat mode is shown on the display.

▶ REPEAT DISC → REPEAT 1 DISC → REPEAT 1 → Released
(Repeat all tracks (Repeat all tracks on (Repeat one (Normal play
on all discs) the selected disc) track) mode)

Note:
During programmed play, only "REPEAT" and "REPEAT 1" can appear.

RANDOM PLAY
1. Press the RANDOM button on the remote control repeatedly, display changes as following.

▶ RANDOM DISC → RANDOM 1 DISC → Released
(All tracks on all (All tracks on (Normal play
discs) selected disc) mode)
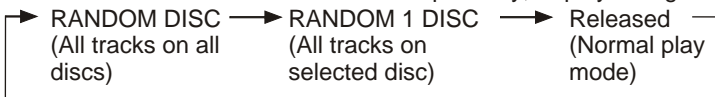
2 Press the PLAY/PAUSE ▶ / ‖ button to start random play.
The player will automatically select and play discs and tracks at random.

MEGA BASS
When playing CD disc or Cassette Tape, you can press the MEGA BASS knob, the mega bass effect will be turned on and press the MEGA BASS knob again, the mega bass effect will be turned off.

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CD OR CD+G OPERATION

TIME DISPLAY SELECTION
Press the DISPLAY button repeatedly during normal play. The display changes in the following sequence:

REMAIN (Remaining playing time for the current track)
REMAIN TOTAL(Total remaining playing time for the disc)
TOTAL(Elapsed playing time for the disc)

Notes:
● During programmed play "REMAIN TOTAL" and "TOTAL" cannot be displayed.
● The displayed playing times may differ slightly from the times listed on the notes accompanying the disc.

PROGRAMMED PLAY
Up to 60 selections, from up to 3 discs, can be programmed for play in any order.
● To begin the programming procedure, select the "CD" function first.
● The discs or tracks must be programmed in the stop mode.
● The same disc or track can be programmed more than once.
● Load the disc that you want to programmed before starting programmed play.

Programming procedure
Follow the example below to program tracks 2 and 6 on DISC 1, track 9 on DISC 2 and all tracks on DISC 3. In this example, each disc has 9 tracks and DISC 3 is in playing position.

1. Press the PROGRAM button.

```
        TR           MEMORY
  ☺☺☺    00 P-01
```
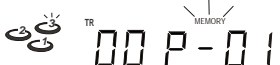
2. Select DISC 1 by pressing the DISC 1 button.
● The DISC SKIP button on the remote control can also be used.

```
        TR           MEMORY
  ☺☺☺    00 P-01
```

3. Select track 2 by pressing the SKIP ▶▶┃ button.
● The number button on the remote control can also be used.

```
        TR           MEMORY
  ☺☺☺    2 P-01
```

4. Press the PROGRAM button.

```
        TR           MEMORY
  ☺☺☺    00 P-02
```

5. Select track 6 by pressing the SKIP ▶▶┃ button.

```
        TR           MEMORY
  ☺☺☺    6 P-02
```

6. Press the PROGRAM button.

```
        TR           MEMORY
  ☺☺☺    00 P-03
```

CD OR CD+G OPERATION

ENGLISH

7. Select DISC 2 by pressing the DISC 2 button.

$$\text{TR} \qquad 00 \; P\text{-}03$$

8. Select track 9 by pressing the SKIP ▶▶I button.

$$\text{TR} \qquad 9 \; P\text{-}03$$
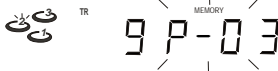
9. Press the PROGRAM button.

$$\text{TR} \qquad 00 \; P\text{-}04$$

10. Select DISC 3 by pressing the DISC 3 button.

$$\text{TR} \qquad 00 \; P\text{-}04$$

11. Select "AL" (all) by pressing the SKIP ▶▶I button. Until you reach the end of the tracks.

$$\text{TR} \qquad AL \; P\text{-}04$$

12. Press the PROGRAM button.
13. Press the PLAY/PAUSE ▶ / II button to start play.

$$\text{TR} \qquad 2 \; 00\text{:}01$$

When all programmed selections have been played, the first programmed track on DISC 1 will appear and "MEMORY" will blink.
●   The program contents are retained in memory.
●   The maximum number of selections that can be programmed is 60. If you try to enter more selections, "FULL" blinks on the display.
●   The program is cleared when the STOP ■ button is pressed in the stop mode.

CHECKING THE PROGRAM
Each time the PROGRAM button is pressed in the stop mode, the programmed details sequentially appear on the display.

CHANGING A PROGRAM
To add a new selection to a program:
1. In the stop mode, press the PROGRAM button repeatedly until "00" on the track section appears on the display.
2. Select a disc and track number as explained above.
3. Press the PROGRAM button.

To change a selection:
1. In the stop mode, press the PROGRAM button repeated until the selection to be replaced is displayed.
2. Select a disc and track number as explained above.
3. Press the PROGRAM button.
**Note:** Programmed tracks cannot be deleted individually.

CASSETTE OPERATION

ENGLISH

LOADING AND UNLOADING CASSETTES
Follow these steps to load and unload cassettes:
1. Press the STOP/EJECT button (9).

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 (9), remove cassette and close cover.
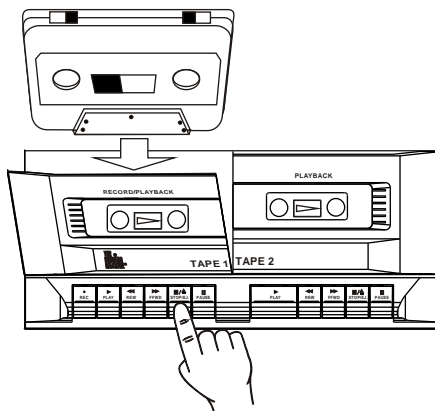
PLAYBACK
1. Turn on POWER (1).

2. Press FUNCTION SELECT button to select the TAPE function, then load cassette(s) into Tape Deck 1, Tape Deck 2 or both Decks (5).

3. Depress PLAY button(s) (10) of Deck 1 or Deck 2.

4. Adjust MASTER VOLUME (6), and BALANCE (8) controls to your pleasure.
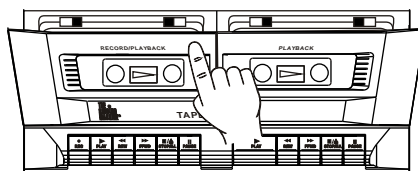
5. Adjust PITCH (Tape Speed) (7) control if desired. This will alter pitch and tempo. If music is too high for your voice, slow down the tape and it will lower the pitch. If too low, speed up tape and pitch will raise. You will feel a distinct click when the PITCH knob is re-centered.

6. To stop the tape on either Deck, press STOP/EJECT button (9) on that Deck once. (Pressing a second time will eject the tape.) When a tape reaches its end, that deck will automatically stop and its PLAY button will be released.

CASSETTE OPERATION

CONSECUTIVE PLAY
1. Turn on POWER (1).

2. Press FUNCTION SELECT button to select the TAPE function, 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 the 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.

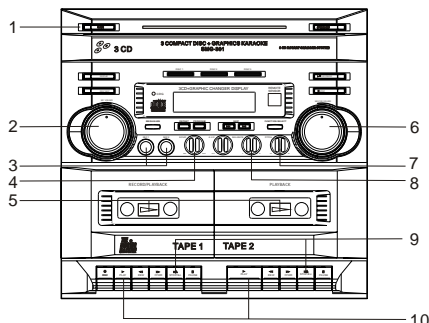## SING ALONG WITH A TAPE
1. Following instructions for PLAYBACK.
   a) Turn on POWER (1).
   b) Press FUNCTION SELECT button to select the Tape function, then load cassette(s) into Tape Deck 1, Tape Deck 2 or both Decks (5).
   c) Depress PLAY button(s) (10) of Deck 1 or Deck 2.
   d) Adjust MASTER 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. You will feel a distinct click when the PITCH knob is re-centered.
   f) To stop tape on either Deck, press STOP/EJECT button (9) on that Deck once. (Pressing a second time will eject that 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 (8).

RECORDING TO TAPE
1. Load a blank cassette in Tape Deck 1.

2. Load a Singing Machine or any other prerecorded tape into Tape Deck 2.

3. Start Tape Deck 2 by pressing the PLAY button.

4. Press both RECORD and PLAY button 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.

CASSETTE OPERATION

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. Press FUNCTION SELECT button to select the CD function. 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 3 of RECORDING TO TAPE 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-301 AS A SYSTEM

1. Connect the supplied Microphone to either one of the MIC input Jacks

2. Press the POWER button 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-301 unit.

CARE AND MAINTENANCE

POWER SWITCH
After using the SMG-301, turn off the power by pressing the POWER button.

CLEANING THE UNIT
To clean the exterior of the unit, simply wipe with a soft clean cloth moistened with plain lukewarm water.

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 performed satisfactorily. Therefore, for continued high 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.
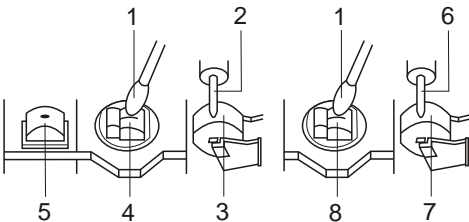
Proprietary tape head cleaners are available from most HI-FI retail outlets.

CASSETTE DECK CARE
Use a clean soft cloth moistened with plain lukewarm water and wrung dry. Never use benzol, benzene or other strong chemical cleaners since these could damage the finish or your unit. It is important that no liquid reaches the inside of the unit.

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.

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

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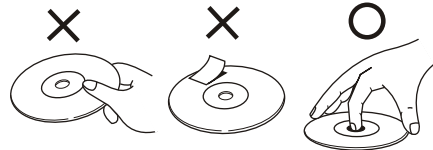
CLEANING DISC
Cleaning will not normally be necessary. However, should fingerprints, dust or dirt appear, you can wipe them off with a soft, lint-free cloth. Wipe the disc in a straight line from center to edge. You can moisten the disc first with ordinary tap water if necessary.

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 bearing and must not be oiled or greased.

E18

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 and remedy the 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.
No power when plugged in.	The AC outlet may not have power.	Check the outlet with a working lamp or other electrical appliance.
No sound.	Volume control is set to minimum.	Turn up the volume.
	Volume control on TV set/PA system is set to minimum.	Turn up the volume at TV/PA system.
	TV set/PA system power is OFF.	Turn on the power at TV/PA system.
	AUX OUT jacks not connected.	Follow directions on page E8 for 'Making the Connections'.
	The wrong function is selected.	Select the correct function.
CD PLAYER cannot work normally or $--$, E, or $\square\square$ are displayed.	Disc is inserted upside down.	Insert disc correctly.
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc is warped.	Use a new disc.
	A nonstandard disc is inserted.	Only use discs bearing standard logo as described on page E11.
	Moisture has formed inside the CD deck.	Wait about 20 to 30 minutes to let it dry out.
	Singing Machine needs to be reset.	Unplug machine for 30 seconds.
No sound - If audio is going through home stereo.	Source Selection on your stereo is not set properly.	Select AUX IN as the source for your home stereo.
	Improper Connection to stereo system or PA.	Follow direction on page E8 for connecting to a home stereo system.
No sound - If audio is going through TV or VCR.	Source Selection on TV or VCR is not correct.	Follow directions on page E8 for 'Making the Connections'.

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
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.
	FUNCTION SELECTOR is in the wrong Mode.	Set the FUNCTION button to TAPE Mode.
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.
No song lyrics appear on screen.	Video cable is not connected properly to the TV.	Connect the video cable to the Singing Machine'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. Refer to "Making the Connections" on page E8. Check the disc to be sure it is a CDG. (See page E22 for details)
	A CDG is loaded but the CDG indicator is not lit.	Check disc to be sure it is clean. (See page E18 for cleaning instructions.)

Please call Customer Service at (866) 670-6888 if the Trouble Shooting Guide information doesn't correct your problem.

Servicing of a Singing Machine by an unauthorized repair facility will void your warranty. The Singing Machine cannot guarantee future repairs on machines that have been tampered with by unauthorized personnel.

E20

SPECIFICATIONS

AUDIO SECTION: OUTPUT POWER (MAXIMUM) OUTPUT IMPEDANCE MONO EXTENSION/EXTERNAL SPEAKER	10 WATTS + 10 WATTS (RMS) 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 (+/- 3dB) 75 dB (A-WTD) IMMEASURABLE 1-BIT DAC 60 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.
MICROPHONE	-74dB 600OHM IMPEDANCE WITH 6.3mm DYNAMIC MICROPHONE
POWER SECTION (Where applicable)	AC 110V-120V~60Hz or AC 220V-240V~50Hz or DC 12V/2A AC TO DC ADAPTER (NOT INCLUDED)
DIMENSIONS (H x W x D)	21.7 x 12.8 x 14.3 Inches / 55.1 x 32.5 x 36.3 cm
WEIGHT	24.0 Lbs / 10.9 Kgs
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.

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 of karaoke terms:

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.

Auto 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 recordings.*

Pitch Control:
This function controls pitch of music by controlling the speed at which a <u>cassette</u> 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 CD/CDG 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 audio 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.

NOTE - CDG is a particular type of compact disc encoding system that is different from VCD or DVD. Your Singing Machine can decode standard audio compact discs and CDG discs. It will not read VCD or DVD encoded discs.

Standard audio discs and cassette tapes will not display lyrics on your TV. Audio CDs do not contain the software necessary to display lyrics.

LIMITED WARRANTY and SERVICE

THE SINGING MACHINE COMPANY, INC. warrants this product to be free from defects in material and workmanship for a period of Ninety (90) days from date of sale to the original consumer purchaser. Product will be replaced or repaired free of charge if it has proven to be defective within the Ninety (90) day period when said product is returned at customer expense within the warranty period. THIS WARRANTY DOES NOT COVER ANY EXPENSES INCURRED IN THE REMOVAL AND REINSTALLATION OF THIS PRODUCT.

This warranty does not apply to any product damaged by accident, misuse, abuse, improper line voltage, fire, water, lightning or other acts of God, or any parts or service furnished by anyone else. The warranty does not cover cartons, carrying cases, batteries, broken or damaged cabinets, or any other items used in connection with the product or consequential damages due to defect in the product. This warranty does not cover products sold AS IS or Re-manufactured units or units sold outside the SMC distribution channel.

ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WARRANTY. THIS IS THE COMPLETE WARRANTY AND NO OTHER EXPRESSED WARRANTY IS VALID. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR AN EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state.

TO OBTAIN WARRANTY OR OUT OF WARRANTY SERVICE - DO NOT RETURN YOUR MACHINE BACK TO THE STORE, please call our Customer Service department at (866) 670-6888 so that we can give you the necessary information on how to obtain your repair or replacement. Do NOT send your machine to the corporate address listed on this card or on our website. No repairs are done at this location and your machine will be returned to you at your expense. Please keep a copy of your receipt. A copy of your receipt is required to obtain service within the 90-day warranty.

For Customers in U.S.A
SERVICE CENTER: THE SINGING MACHINE COMPANY
18375 S. Broadwick St.
Rancho Dominguez, CA 90220
U.S.A

For Customers in Canada
SERVICE CENTER: An-Mar Service, Inc.
15 Cedar Point Dr Unit 3
Barrie, Ont, L4N-5R7
Canada

The Singing Machine Company, Inc.

301-0303-ENG-SPA-FRE02

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