



**國際電器認證中心有限公司 International Electrical Certification Centre Ltd.**

提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing, International Certification & Information

**FCC ID: A2H4L9CDG-2S**

Agent of   
Accredited Laboratory

## **Exhibit 6 - User's Manual**

**Head Office**

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# CD KARAOKE

## On Screen Lyrics Machine



USER'S MANUAL



The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.

### WARNING

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

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



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## WARNING

### CLASS 1 LASER PRODUCT

CLASS 1 LASER PRODUCT  
APPAREIL À LASER DE CLASSE 1  
PRODUIT LASER DE CLASSE 1

CAUTION  
INVISIBLE LASER RADIATION  
WHEN OPEN AND INTERLOCKS  
DEFEATED.  
AVOID EXPOSURE TO BEAM

This product contains a low power laser device.

## PRECAUTIONS

Follow the advice below for safe and appropriate operation.

### ON PLACEMENT

- Do not use the unit in places which are extremely hot, cold, dusty or humid.
- Place the unit on a flat even surface.
- Do not restrict the air flow of the unit by placing it in a place with poor air flow, covering it with a cloth or placing it on a carpet.

### ON SAFETY

- When connecting or disconnecting the AC cord, grip the plug and not the cord itself. Pulling the cord may damage it and create hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC power cord.

### ON AC VOLTAGE

- Before use, check that the rated voltage of your unit matches your local voltage.

### ON CONDENSATION

- When left in a heated room where it is warm and damp, water droplets or condensation inside the unit, the unit may not function normally.
- Left it stand for 1 to 2 hours before turning the power on, or gradually heat the room up and dry the unit before use.

Should any trouble occur, disconnect the AC power cord and refer servicing to qualified personnel.

## FCC INFORMATION

This device complies with Part 15 of FCC Rules. Operations are subject to the following two conditions:

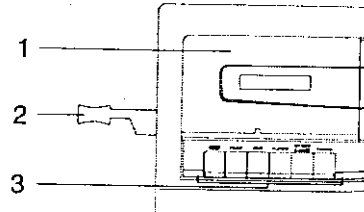
- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesirable operations.

# PARTS IDENTIFICATION

## FRONT PANEL

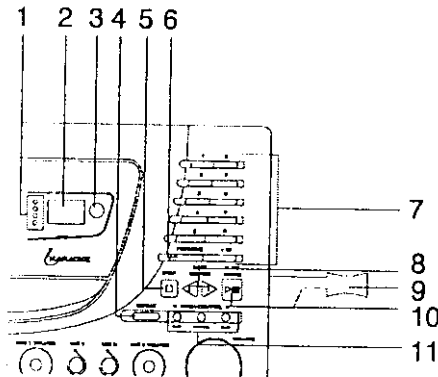
### Cassette Section

1. Cassette holder
2. MIC 1 Holder
3. Cassette Control buttons
  - REC(Record) button
  - ▶ PLAY button
  - ◀◀ REW(Rewind) button
  - ▶▶ F.FWD(Fast Forward) button
  - /▲ STOP/EJECT button
  - || PAUSE button



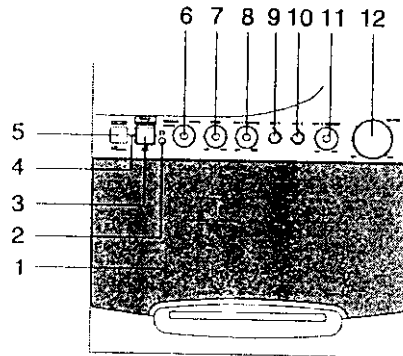
### CD Section

1. CD operation indicators
  - ONE SONG STOP indicator
  - PLAY/PAUSE indicator
  - REPEAT ONE indicator
  - REPEAT ALL indicator
2. CD Display window
3. Remote sensor
4. REPEAT button
5. ■ STOP button
6. PROGRAM button
7. Number buttons [1 - 9, 0, +10]
8. SKIP/SEARCH buttons
9. MIC 2 Holder
10. ▶|| PLAY/PAUSE button
11. PITCH CONTROL buttons



### General Section

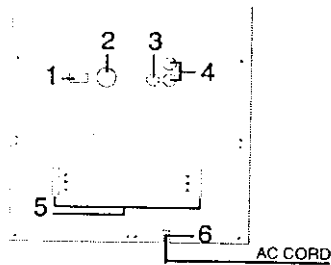
1. Speakers
2. ∅ (Phones) jack
3. VOCAL CHANGER button
4. Standby indicator
5. POWER button
6. VOCAL/MUSIC control
7. ECHO control
8. MIC 1 Volume control
9. MIC 1 jack
10. MIC 2 jack
11. MIC 2 Volume control
12. VOLUME control



## PART IDENTIFICATION

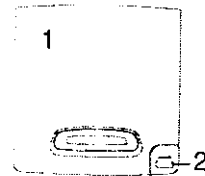
### BACK PANEL

1. Channel Selector
2. RF COAXIAL jack
3. VIDEO jack
4. AUDIO L/R jack
5. AC cord holder
6. AC cord



### TOP PANEL

1. CD tray lid
2. CD OPEN button

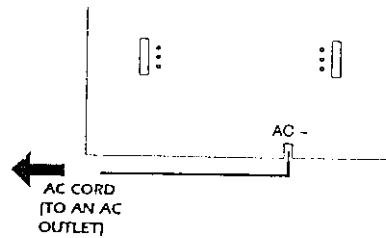


## AC POWER CONNECTION

### HOUSE CURRENT

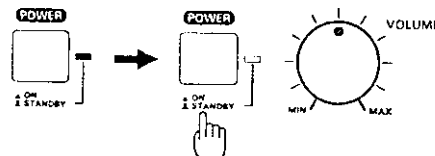
- Make sure that all the components are connected correctly before plugging the AC power cord into an AC outlet.
- Whenever the AC power cord is connected, the power Standby indicator lights up.

**CAUTION (FOR USA and Canada)**  
To prevent electrical shock, match wide blade of plug to wide slot, fully insert.



### USING THE POWER BUTTON

- This system can be switched on or to standby by pressing the POWER button when the AC power cord is connected to an AC outlet.
- When the AC power is connected and the POWER button pressed, the Standby indicator goes off.



## TV CONNECTION

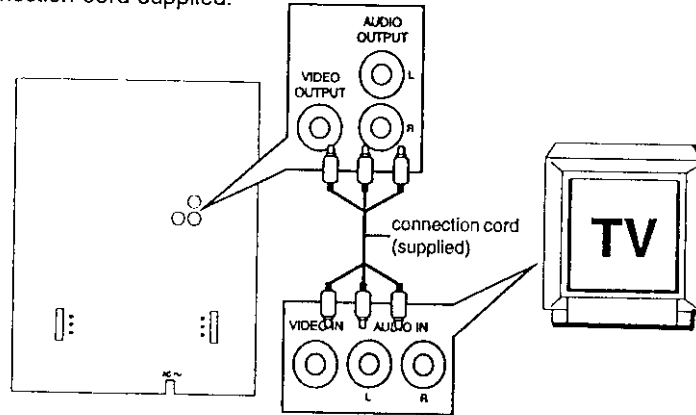
When the unit is connected to a TV set of either NTSC or PAL color system, the video image from a CD-G (CD graphics) can be shown on the TV set.

- Sound from the disc is heard from the speakers of this unit.
- Only a TV set with the VIDEO input jack can be connected to watch graphics.

### CONNECTION (A) - FOR ALL TV SETS WITH AUDIO AND VIDEO JACKS

Connect the VIDEO jack of the unit to the VIDEO input jack of the TV set with the connection cord supplied.

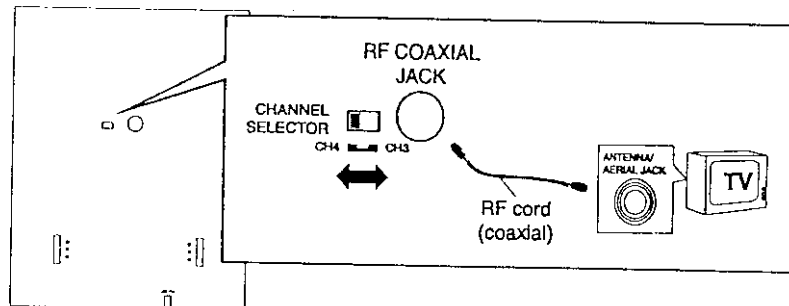
Connect the AUDIO jack of the unit to the AUDIO input jack of the TV set with the connection cord supplied.



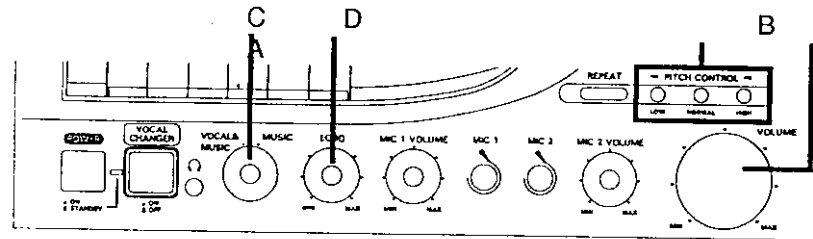
OR

### CONNECTION (B) - FOR ALL TV SETS WITHOUT INPUT JACKS

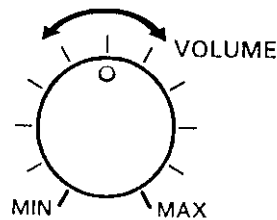
Connect the ANTENNA/AERIAL SOCKET of the TV set and the RF (coaxial) cord. Switch the unit to channel 3 or 4 and the TV set to the same channel.



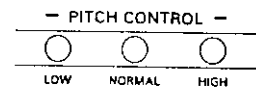
## SOUND ADJUSTMENT



A. To adjust the VOLUME.

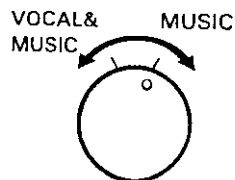


B. Use these buttons to adjust the pitch of the music. (ONLY when playing CD or CDG)

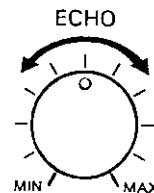


LOW: Level "-1" to "-9"  
 Normal: Level "0"  
 HIGH: Level "1" to "9"

C. Choose between VOCAL/MUSIC or MUSIC mode (See the following page).



D. Adjust the ECHO level.



### WHEN RECORDING

The VOLUME control may be adjusted with no effect on the recorded signal.

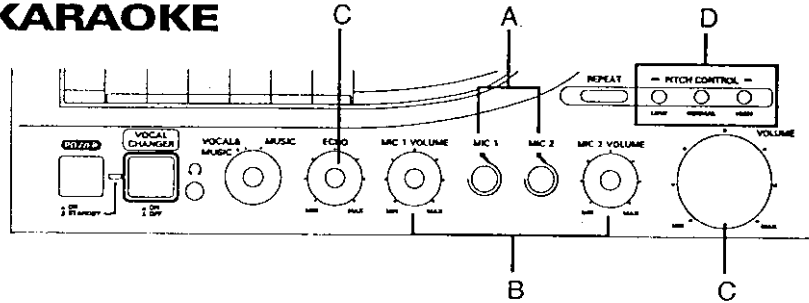
## USING THE NUMBER BUTTONS

You can select CD tracks by entering the track number directly using the number button (up to 19).

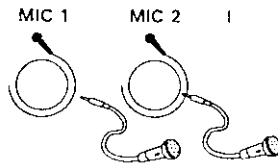
Note:

- To enter track no. 1-9 : Press the required number button
- To enter track no. 10 : Press the "+10" button and then the "0" button
- To enter track no. >10 : Press the "+10" button until the required second digit is reached, then select one of the number buttons.

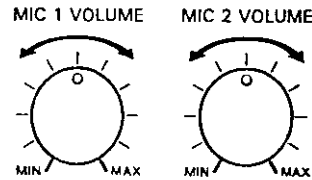
# KARAOKE



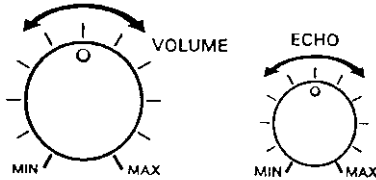
A. Connect the microphone(s) (included), and play the music source.



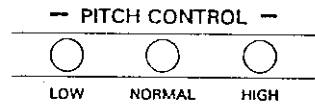
B. Adjust the MIC 1 and MIC 2 VOL. controls



C. Adjust the ECHO level, and VOLUME controls.



D. Adjust the pitch of the music to suit your voice during karaoke (CD or CDG ONLY).



Press either LOW or HIGH to lower or raise the pitch of the music. Press NORMAL to return to the original pitch.

## VOCAL CHANGER

- Set the VOCAL CHANGER to ON, and the VOCAL/MUSIC switch to **VOCAL&MUSIC** position.
- The VOCAL CHANGER function can be used only when playing Karaoke tapes or Karaoke CDs. The singer's voice will be cut out when you sing into the microphone. Once you stop singing, the singer's voice will resume.

## VOCAL/MUSIC

- VOCAL&MUSIC mode : normal playback of tapes or CDs.
- MUSIC mode : background music without the singer's voice.

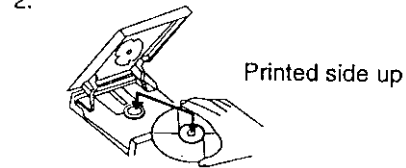
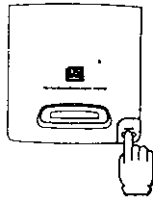
## FEEDBACK

- In case a loud howling sound "feedback" is heard when a microphone is plugged in, try the following :
  1. Decrease the master volume or mic volume on the unit.
  2. Move the hand microphone away from the unit.

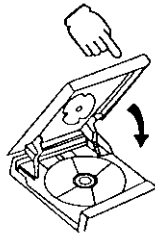


## COMPACT DISC PLAYBACK (1)

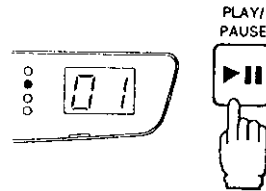
1. Press the OPEN button to open the CD tray,



3. Press the CD tray's lid to close the CD tray.

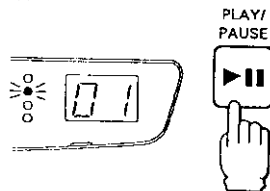


4. Press the PLAY/PAUSE button to play the CD.  
The PLAY/PAUSE indicator lights up.



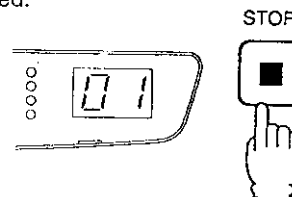
### TO PAUSE

Press the PLAY/PAUSE button again.  
The PLAY/PAUSE button indicator flashes.



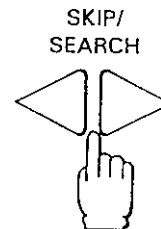
### TO STOP

Press the STOP button.  
The total number of tracks will be displayed.



### TO SKIP

- Press the  $\triangleright$  button to skip to the next track.
- Press the  $\triangleleft$  button once to go back to the beginning of the current track.  
Press the  $\triangleleft$  button continuously to go back to the previous tracks.
- Playback resumes from the selected track.



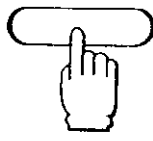
### TO SEARCH

- Press and hold the  $\triangleleft$  and  $\triangleright$  buttons to search through the current track.
- Playback resumes from the selected point.

## COMPACT DISC PLAYBACK (2)

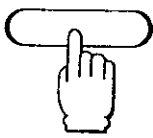
### REPEAT PLAY

REPEAT



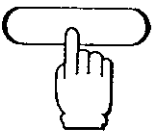
ONCE

REPEAT

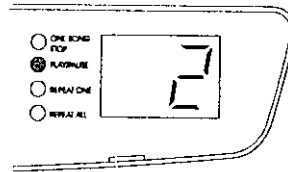
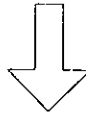
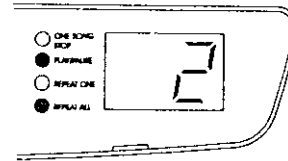
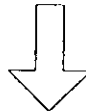
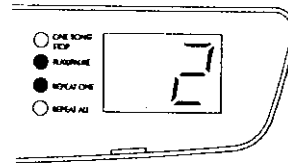


TWICE

REPEAT

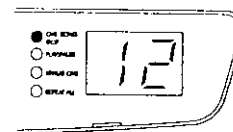
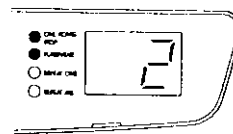
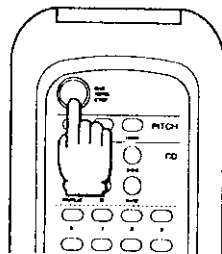


3 TIMES



### ONE SONG STOP (REMOTE CONTROL ONLY)

To play the selected song once and then the player will automatically stop.

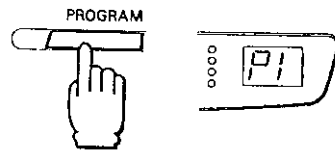


## COMPACT PLAYBACK (3)

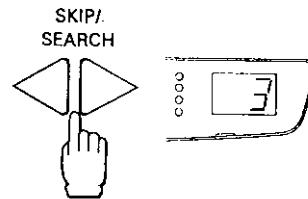
### PROGRAM PLAYBACK

Up to 10 tracks can be programmed for listening.

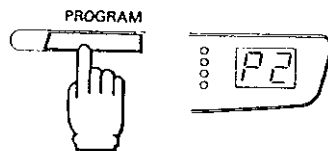
1. Press the PROGRAM button.



2. Press the SKIP/SEARCH buttons only to select the desired track.



3. Press the PROGRAM button again to enter a track into memory.



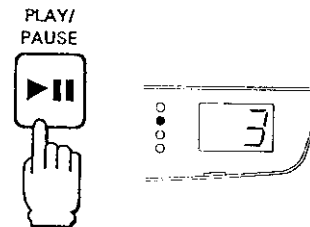
4. Repeat steps 2 and 3 to program up to tracks.

**NOTE:** For P10, the CD DISPLAY shows only the last digit.

For example:  
P10



5. Press the PLAY/PAUSE button starts programmed playback.



#### Note

Programming can only be done when the unit is in the stop mode.

#### To Check What Has Been Programmed

Press the PROGRAM button, then press the > button to review the programmed track. To check the next track, press the PROGRAM button and then the > button again and repeat the process for more tracks.

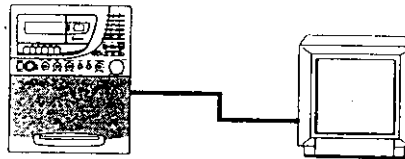
#### To Cancel Program

Press the OPEN button on the CD tray's lid to cancel the entire program.

## COMPACT DISC GRAPHICS (CDG)

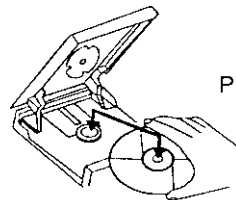
### Preparation

- Make sure that the TV set is correctly connected to this unit (See TV CONNECTION).
- Prepare CD-Gs.

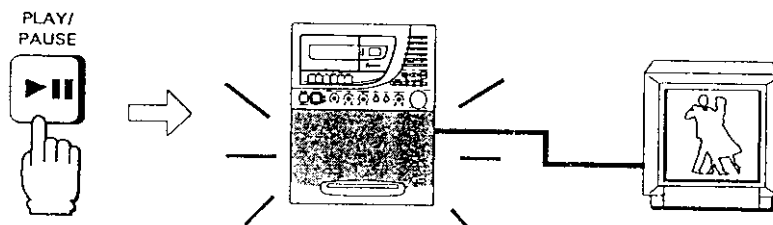


A Turn on the TV set and select the correct channel (or video input).

B Place the CDG disc in the disc holder



C Press the PLAY/PAUSE button to start playing  
Sound will be heard from the speakers of this unit, and graphics will be shown on the TV set.



### To stop play

Press the ■ STOP button.

### Usable disc

Use a disc with GRAPHIC or CDG marked on its jacket.

When playing a disc other than CDG with a video image (CD-V, CD-I etc.), the video image will not shown on the TV set.

### Note

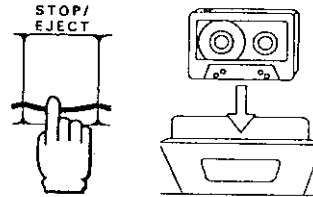
- The video image remains when the player stops, until the next operation starts.

### Note

- After searching for previous or next tracks with the PAUSE, SKIP button, an unusual image may be displayed on the TV set. This does not indicate a malfunction. In this case, press the STOP button to stop the operation then start again.
- If the color video images of a nearby television changes while this unit is operating, move this unit further away from the television.

## TAPE PLAYBACK

1. Press the STOP/EJECT button and load a cassette into the cassette compartment.



2. Press the PLAY button to begin playback.



### TO STOP PLAYBACK

Press the STOP/EJECT BUTTON.

### TO INTERRUPT PLAYBACK

Press the PAUSE button.

To resume play, press the PAUSE button again.

### TO FAST WIND

Press the REW(Rewind) or F.FWD(Fast forward) button.

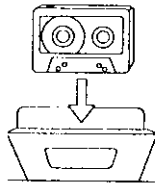
Press the STOP/EJECT button to stop winding at the desired position.

### WHEN THE TAPE REACHES ITS END

During fast wind or regular play, the tape will stop automatically when its end is reached.

## RECORDING FROM CD OR CDG (AUDIO ONLY)

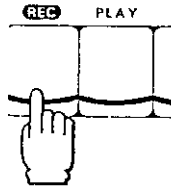
1. Insert a tape into the cassette compartment.



2. Press the PAUSE button of the cassette deck.



3. Press the RECORD button which also engages the play button.



4. Press the PLAY/PAUSE button of the CD player.

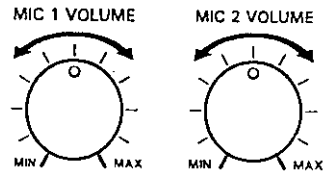
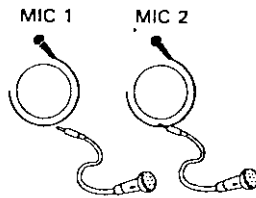


5. Release the PAUSE button of the cassette deck.

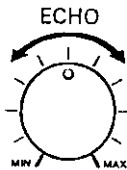


## RECORDING FROM MICROPHONE(S)

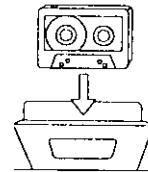
1. Connect the hand microphone(s) to MIC jack.
2. Adjust the MIC 1 and/or MIC 2 VOL. controls to set desired recording level from the microphone.



3. Adjust the ECHO control.



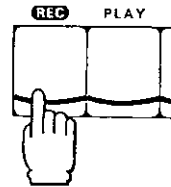
4. Insert a tape into the cassette compartment.



5. Press the PAUSE button of the cassette deck.



6. Press the RECORD button.



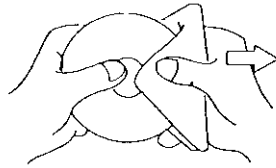
7. Press the PAUSE button again.



## RECORDING FROM MICROPHONE MIXING SOUND

1. Connect the microphone(s) to MIC Socket and turn the switch on.
  2. Select and play the desired music source (TAPE, CD/CDG).
  3. Adjust the ECHO, PITCH and VOCAL/MUSIC controls.
- The rest of the procedure : as above.

## MAINTENANCE



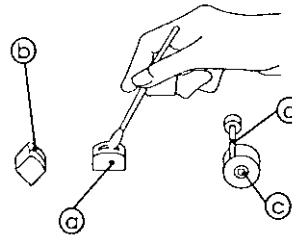
### CLEANING CD

If the CD skips or will not play, the disc may need cleaning.

Before playing, wipe the disc from the centre out with a cleaning cloth. After playing, store the disc in its case.

### CLEANING THE TAPE HEADS

To maintain optimum sound quality, clean the playback/record heads (a), erasure head (b), pinch roller (c), and capstans (d) regularly (every 10 hours of use). Use a cotton swab lightly moistened with cleaning fluid or denatured alcohol.



### CLEANING THE UNIT

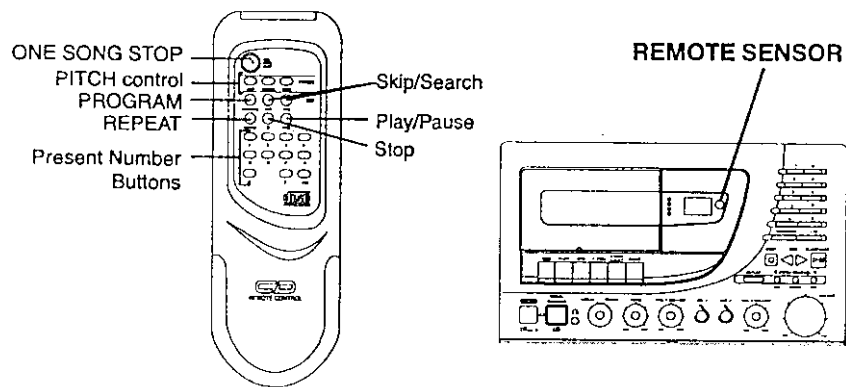
Do not use volatile chemicals on this unit. Clean by lightly wiping with a soft cloth.

### IMPORTANT NOTICES

- Should the CD door be opened before the reading of the CD is completed, a jamming noise may occur. This is resolved by closing the CD door.
- Keep the CD door closed at all time to prevent dust from entering the CD compartment.
- If an abnormal display indication or an operating problem occurs, disconnect the AC power cord. Wait at least 5 seconds, then reconnect the AC power cord.



## REMOTE CONTROLLER



### INSTALLING BATTERIES

Install two R03 ( AAA or SUM-4 ) size batteries into the battery compartment of the Remote Controller.

### BATTERY REPLACEMENT

When batteries become weak, the operating distance of the Remote Controller is greatly reduced and you will need to replace the batteries.

### USING THE REMOTE CONTROLLER CORRECTLY

- Point the Remote Controller at the REMOTE SENSOR located on the unit.
- When there is a strong ambient light source, the performance of the infrared REMOTE SENSOR may be degraded, causing unreliable operation.

### NOTE

If the Remote Controller is not to be used for a long time, remove the batteries to prevent possible damage through battery. Do not mix different types of battery, or old batteries with new ones.



## TROUBLE SHOOTING GUIDE

### PROBLEMS

### ITEMS TO CHECK

#### General

No power supply.

Is the power cord unplugged or loose?

No remote control function.

Are batteries installed?

Are the batteries properly aligned?

#### Cassette

The cassette cannot be inserted.

Is the cassette facing the wrong direction when you try to insert it?

The tape does not run.


Is the PAUSE button on?

The tape gets caught in the tape transport mechanism.

Is the pinch roller or capstan dirty?  
Is there excessive slack in the tape?


Tape running is unstable.

Is there excessive slack in the tape?



There is excessive noise, the sound quivers or there are breaks in the sound.

Are the heads dirty?



#### Recording

The REC button cannot be pressed.

Is a cassette inserted?

Is the cassette's erasure prevention tab broken off?

Recording cannot be done.

Are the heads dirty?

The previous recording cannot be erased.

Is the erase head dirty?



## TROUBLE SHOOTING GUIDE (CONT.)

### PROBLEMS

### ITEMS TO CHECK

#### CD

CD play does not begin.

Is the CD upside down?  
Is the CD or lens excessively dirty?  
Is the disc holder closed properly?  
Is the function selector set to CD?  
Is the pause mode on ?

The CD produces no sound.

Is there condensation inside the unit?

The CD sound jumps.

Is the lens or CD excessively dirty?  
Is the unit subject to excessive vibration?  
Are there any bad scratches on the CD?

#### CDG

No graphics when playing CDG.

Is the disc with Graphics or CDG marked on disc?  
Is the video in cable plugged in or loose?

No sound when playing CDG.

Is the TV set on mute mode?  
Is the volume set to the minimum?  
Is the audio in cable plugged in or loose?

No sound and no graphics when playing CDG.

Is the connection of video and audio cable plugged in correctly?  
Are there any CDG inside the CD tray?  
Is the graphics disc upside down?  
Is the graphics disc excessively dirty?




## SPECIFICATIONS


### GENERAL:

Power Source	AC 120 V ~ 60 Hz
Output Power	10% THD : 5 W rms MAX 7 W rms
Power Consumption	30 W
Speaker	120 mm cone type 4 ohm full range
Output Terminal	Audio/Video DIN jack 3.5Ø Headphone jack Audio/Video RCA jack
Input Terminal	6.4 Ø mic jack x 2

### CD SECTION:



Channels	2 Channels
S/N Ratio	60 dB
Wow & Flutter	Undetectable
Sampling Frequency	44.1 kHz
Quantization	16 bits linear/ch
Pickup Light Source	Semiconductor Laser
Pickup Wave length	790 nm



### CDG SECTION:

Video Signal	NTSC
Video Output	1V P-P 75 ohm, Unbalance
RF Output	NTSC CH3, CH4, 68 dB uV 75 ohm



## SPECIFICATIONS


### CASSETTE SECTION:

Track Format	4 tracks/ 2 channels
Recording System	AC bias
Erasing System	Magnetic Erase
Tape Speed	4.75 cm/ sec
Fast Forward & Rewind Time	110 sec. (C-60 Tape)
Frequency Response	40 - 12,500 Hz (Normal Tape)


### KARAOKE SECTION:

Mic Sensitivity	-65 dB
BBD Stage	1024
Delay time	50 ms

### Accessories:



2 x Dynamic microphones
2 x 1.5V "AAA" Batteries
1 Demo CDG disc
1 RF (coaxial) cable
1 AUDIO/VIDEO cable



### DIMENSION:

435 x 250 x 440 mm (LxWxH)

### WEIGHT:

7.4 kg

Specifications and external appearance are subject to change without advance notice due to continuous product improvement

P/N: 811-CDG291-080