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The Sound of Education<sup>SM</sup>

# Digital Music Maker

## Multi-Media Player/Recorder

featuring MP3, CD, CD-R, and CD-RW Compatibility  
Plus Remote Control









**Owner's Manual**

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**Model 2385-03**

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK - DO NOT OPEN</b>	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		
	<b>The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.</b>	
		<b>The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.</b>
 This product is not designed to function normally in strong electromagnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.	<b>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.</b>	 Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé à un fort champ électromagnétique. La qualité sonore redeviendra normale après affaiblissement du champ électromagnétique.

## IMPORTANT SAFETY INSTRUCTIONS

ATTENTION: ALL SAFETY AND OPERATING INSTRUCTIONS SHOULD BE READ BEFORE OPERATING APPLIANCE. ALL OPERATING AND USE INSTRUCTIONS SHOULD BE FOLLOWED WHEN OPERATING THE APPLIANCE. HEED AND ADHERE TO ALL WARNINGS ON THE APPLIANCE AND IN THE OPERATING INSTRUCTIONS. RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE REFERENCE.

**WATER & MOISTURE** - DO NOT USE THE APPLIANCE NEAR WATER; IE. BATHTUB, WASHBOWL, KITCHEN SINK, LAUNDRY TUB, WET BASEMENT OR SWIMMING POOL.

**VENTILATION** - DO NOT SITUATE THE APPLIANCE SO THAT ITS LOCATION OR POSITION INTERFERES WITH ITS PROPER VENTILATION. FOR EXAMPLE, THE APPLIANCE SHOULD NOT BE SITUATED ON A BED, SOFA, RUG OR SIMILAR SURFACE THAT MAY BLOCK THE VENTILATION OPENINGS. THE APPLIANCE SHOULD NOT BE PLACED IN A BUILT-IN INSTALLATION, SUCH AS A BOOKCASE OR CABINET, THAT MAY IMPEDE THE FLOW OF AIR THROUGH THE VENTILATION OPENINGS.

**HEAT** - SITUATE THE APPLIANCE AWAY FROM HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES OR OTHER APPLIANCES (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

**POWER SOURCES** - CONNECT THE APPLIANCE ONLY TO A POWER SUPPLY TYPE DESCRIBED IN THE OPERATING INSTRUCTIONS OR MARKED ON THE APPLIANCE.

**GROUNDING OR POLARIZATION** - PRECAUTIONS SHOULD BE TAKEN SO THAT THE GROUNDING OR POLARIZATION MEANS OF THE APPLIANCE ARE NOT DEFEATED.

**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 APPLIANCE.

**CLEANING** - THE APPLIANCE SHOULD BE CLEANED ONLY AS RECOMMENDED BY THE MANUFACTURER.

**NON USE PERIODS** - UNPLUG THE APPLIANCE POWER CORD FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

**OBJECT & LIQUID ENTRY** - CARE SHOULD BE TAKEN SO THAT OBJECTS DO NOT FALL AND LIQUIDS ARE NOT SPILLED INTO THE ENCLOSURE THROUGH OPENINGS.

**DAMAGE REQUIRING SERVICE** - THE APPLIANCE SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL WHEN: **(A)** THE POWER SUPPLY CORD OR THE PLUG HAS BEEN DAMAGED **(B)** OBJECTS HAVE FALLEN OR LIQUID HAS BEEN SPILLED INTO THE APPLIANCE **(C)** THE APPLIANCE HAS BEEN EXPOSED TO RAIN **(D)** THE APPLIANCE DOES NOT APPEAR TO BE OPERATING NORMALLY OR EXHIBITS A MARKED CHANGE IN PERFORMANCE **(E)** THE APPLIANCE HAS BEEN DROPPED OR THE ENCLOSURE DAMAGED.

**SERVICING** - THE USER SHOULD NOT ATTEMPT TO SERVICE THE APPLIANCE BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. ALL OTHER SERVICING REFER TO A QUALIFIED SERVICE PERSONNEL.

## **Inspecting & Unpacking**

Although the shipping carton and packaging materials are designed to prevent damage during shipment, you should inspect the carton for any signs of mishandling or damage immediately upon receiving your new unit. Carefully lift the unit from the carton and inspect it for any signs of damage. Save all packaging materials for possible later use.

**Note:** *Any shipping damage or loss claims must be submitted to the freight agent.*

Your carton and packaging should contain the following:

- CD/Cassette/AM/FM Radio
- Owner's Manual
- Califone Warranty Registration Mail-In Card
- Project Intercept Tag

## **Initial Set-Up**

### ***AC Line Operation***

1. The power cord is located at the rear of the unit. Release the cord retainer tab and uncoil the cord.
2. Plug the cord into a standard 120 volt 50-60 Hz AC outlet. Be sure the plug blades are fully inserted. THE UNIT IS ON STANDBY WHEN PLUGGED IN.

### ***Battery Operation***

1. The battery compartment is located at the rear of the unit. Push the lever at the center of the door toward the rear of the unit, then lift the door free.
2. Eight "D" or UM-1 size batteries are required. When installing refer to the orientation diagram shown inside the battery compartment. Place the batteries on top of the nylon ribbon. This helps to "pop" old batteries out when you need to replace them.
3. Replace the battery cover.

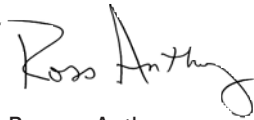
**IMPORTANT:** Remove all batteries from your cassette unit if it will not be used for an extended period of time. DO NOT LEAVE DISCHARGED BATTERIES IN THE BATTERY COMPARTMENT. DAMAGE TO THE UNIT DUE TO BATTERY CORROSION IS NOT COVERED UNDER WARRANTY.

**NOTE:** *Califone cassette recorders are designed for use only with Type 1 Normal Bias recording tape.*

Thank you for choosing the Digital Music Maker multimedia player/recorder.

I encourage you to visit our website ([www.califone.com](http://www.califone.com)) to register your product for its warranty and learn more about the complete line of Califone portable audio equipment, headphones, computer peripheral and language learning materials.

Sincerely,



Roscoe Anthony  
President  
Califone International, Inc.  
[www.califone.com](http://www.califone.com)

### GETTING STARTED

When the 'Power' button (1) is depressed the LED (2) to the left of the LCD display (3) will be red for standby mode. Pushing the LED will cause the LED to be green indicating the unit is fully powered up.

- Depressing the 'Function' (4) button will cause the LCD display to show 'Tape', 'AM/FM' or 'CD'.

#### Electronic Volume Control Display



### DIGITAL VOLUME CONTROL

- Press 'VOL ▼' (7) to reduce the volume, the level will be shown in the LCD panel. Minimum volume will show '00' on the LCD display.

Press 'VOL ▲' (8) to increase the volume. Maximum volume is '30' as shown on the LCD display.

NOTE: Audio level may be inaudible below "16."

### BBS CONTROL

- Press the "BBS" (10) to select "BBS ON" or "BBS OFF"



### EQ CONTROL

- Press "EQ" (9) to select the equalizer as sequence.



### RADIO OPERATION

#### TUNING IN RADIO STATIONS

1. Press "Function" (4) to select the equalizer as sequence.
2. Press "AM/FM" (5) to select the desired waveband: FM or AM.

## RADIO OPERATION (continued)



3. Press and hold CD/TUNER ▲ (14) or CD/TUNER ▼ (15) button until a radio station with sufficient signal strength is found. Repeat this procedure until the desired station is reached.
4. To tune into a weak station briefly press CD/TUNER ▲ (14) or CD/TUNER ▼ (15) repeatedly until the display shows the desired frequency or when the best reception has been obtained.
5. Extend the telescope antenna and adjust for best reception.  
Note: For FM Tuning, ((ST)) will show on the LCD display when stereo sound is obtained.

## STORING PRESET STATIONS

You can store up to 10 radio station for FM and 10 for AM in the memory. When a preset radio station is selected. The preset number appears on the display.

Note: If power is turned OFF (or standby switch not "green") the memory will be lost.

## PROGRAMMING STATIONS

1. Press FUNCTION to TUNER mode.
2. Press AM/FM (5) to select the desired wave band: FM or AM.
3. Press CD/TUNER ▲ (14) or CD/TUNER ▼ (15) to tune to the desired frequency.



4. Press "PROGRAM" (17) on the unit or remote control, the "PROGRAM" and "01" will start flashing. The current preset number will be displayed for selection.



5. If you wish to store the radio station to another preset number, press the "ALBUM PRESET" ▲ (11) or the "ALBUM PRESET" ▼ (12) to select the desired preset number.
6. Press PROGRAM (17) on the unit again to restore the radio station. Repeat steps 3 to 6 to store other preset radio stations.

Note: During program, if no button is pressed within 5 seconds, the system will exit program mode automatically. If power is removed the station memory is lost.

## SELECTING STATION

Press "ALBUM PRESET" ▲ (11) or "ALBUM PRESET" ▼ (12) to select the desired preset number. The preset number, radio frequency, and PROGRAM will appear on the display.

### Memory Display



### MONO/STEREO

Press "MONO/STEREO" (41) to select mono or stereo mode. When stereo mode is selected, ((ST)) will appear on the display (if current station is FM stereo.)



**Note:** Only FM is able to select "STEREO" or "MONO"

### MUTE

- Press "MUTE" (6) to cut off the volume, the MUTE display will flash.

### MUTE (Flashing)



### CD/MP3 FUNCTION

#### LOADING A CD or MP3 Disc

1. Press the FUNCTION (21) to select CD mode. "CD" will appear on the display, and then "CD" will be replaced by "NO DISC."
2. Lift up the CD door (18), then "OPEN" will be shown on the display.
3. Place a CD or MP3 disc on the tray with that label facing up.
4. Close the CD door. The system will automatically read the content of the CD or MP3 disc; if a CD disc is loaded, the LCD display will total the number of tracks and the total playing time.



If an MP3 disc is loaded, total Album number, tracks, "ESP" and "STOP" will be shown on the LCD display.

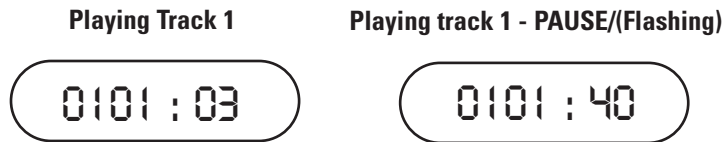


- To remove the disc, press the STOP (23) button and then open the door, handle the disc by its edge, do not touch the playing surface and carefully remove it from the player.

**CD FUNCTION**

The 2385AV-03 CD Player will accept 12 cm and 8 cm discs and will read MP3, CD, CD-R and CD-RW media formats.

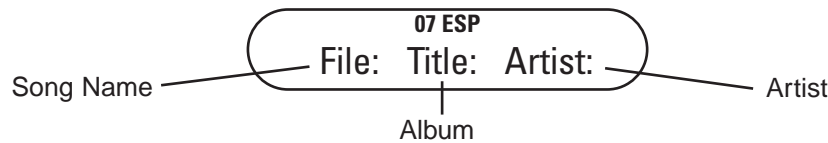
- With a CD loaded into the system, press the PLAYER/PAUSE (19). The current track number and elapsed playing time will be shown on the display.
- To interrupt the play, press the PLAY/PAUSE (19). The elapsed playing time will start flashing on the display.



- To resume the play, press the PLAY/PAUSE button again.
- To select a desired track, press the ►► (20) OR ◄◄ (21) button repeatedly until the desired track appears on the display.
- To fast search for a particular passage during playing, press and hold the ►► (20) or ◄◄ (21) button and release it when the desired passage is located.
- To end the play, press the STOP (23) button.

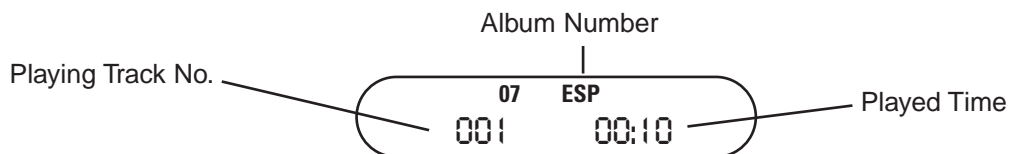
**MP3**

- With an MP3 disc loaded in the system, press the PLAY/PAUSE button (11) to start playing from track 001 of Album 01, or use the "ALBUM PRESET" ▲ (11) or "ALBUM PRESET" ▼ (12) and ►► (20) or ◄◄ (21) button to select the desired Album and track.
- Press the PLAY/PAUSE button (19). The information of MP3 file will show as.



**Note:** When the data of File, Title and Artist information is loaded to the MP3 file before recording, the LCD will display when playing. Otherwise, UNKNOWN will show on LCD display.

- To interrupt the play, press the PLAY/PAUSE button (19). The Album No., track no. and played time will show on the LCD display as:



- To resume the play, press the PLAY/PAUSE (19) again.
- To select a desired Album press the "ALBUM PRESET" ▲ (11) or the "ALBUM PRESET" ▼ (12) repeatedly until the desired Album appears on the display
- To select a desired track, press ►► (20) or ◀◀ (21) button repeatedly until the desired track appears on the display.
- To fast search for a particular passage during playing, press and hold the ►► (20) or ◀◀ (21) button and release it when the desired passage is located.
- To end the play, press the STOP (23).

### PROGRAM PLAY OF CD

Up to 10 tracks on a disc can be programmed for play in any desired order.

- First select the CD/MP3 mode and load a disc that you want to program.
- The tracks must be programmed in the stop mode.
- The same track can be programmed more than once.

- In stop mode, press the PROGRAM (17) "00P -- 01" will be displayed.



- Select a desired track which will be shown on the display by pressing the ►► (20) and ◀◀ (21).
- Press the PROGRAM (17) to store the selected track. "PROGRAM" and "00 P -- 02" will be shown on the display.
- Repeat steps 2-3 to select and store other desired tracks.
- Press the PLAY/PAUSE (to start programmed playing from the PROGRAM 01 track. The track number of the first programmed track, PROGRAM and the elapsed playing time will be shown on the display.
- To end the programmed play, press the STOP button (23).



## PROGRAM PLAY OF MP3 DISC

Up to 64 tracks on a disc can be programmed for play in any desired sequence.

- First, select the CD mode and load a disc that you want to program.
  - The track must be programmed in the STOP mode.
  - The same track can be programmed more than once.
1. In Stop mode, press the PROGRAM (17) on the unit "00" "PROGRAM" AND "000P--01" will be shown on the display, and "00" will start flashing.
  2. Select a desired Album which will be shown on the display by pressing ►►| (20) or |◄◄ (21).
  3. Press the PROGRAM (17) to store the selected track. "0X" will be shown on the display and the "000" will start flashing. (where "X" indicates the selected album).
  4. Select a desired Album which will be shown on the display by pressing the ►►| (20) or |◄◄ (21) button or using the numeric keys on the remote control to program.
  5. Press the PROGRAM (17) to store the selected track "00", "PROGRAM" AND 000 P -- 02" will be shown on the display.



6. Repeat steps 2-5 to select and store other desired tracks.
7. Press the PLAY/PAUSE (19) to start programmed playing from the PROGRAM 01 track.  
The Album and track number of the first programmed track, PROGRAM and the elapsed playing time will be shown on the display.
8. To end the programmed play, press STOP button (23).

Note: The program numbers will be lost if the power is turned off (ON/STANDBY switch is NOT green).

## RANDOM

You can play all the tracks in random mode.

1. During playing, pause or stop mode, press RANDOM (24) on the remote control to enable random play mode. "RANDOM" will appear on the display.
2. To exit RANDOM mode, press RANDOM (24) again, "RANDOM" will disappear from the display.

## ESP MODE

Shockproof function 'ESP' can be set in CD mode.

Press FIND TITLE/ESP (25) to cancel the ESP function in CD mode and the "ESP" display will disappear.

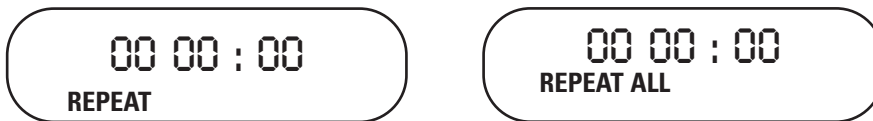
Press the button again. The "ESP" will be shown on the LCD display and the ESP time "10 sec" will be displayed on the LCD.

## REPEAT PLAY

1. In the stop or play mode, press the REPEAT (16) once on the remote control, the system will play the current track repeatedly. "REPEAT" will be shown on the display
2. Press the REPEAT (16) twice, the system will play all tracks repeatedly. "REPEAT ALL" will be displayed.
3. Press the REPEAT (16) for the third time, the CD system will switch off the repeat function.
4. To exit the repeat mode, press REPEAT (16) repeatedly until the "REPEAT" icon disappears from the LCD display.

### Note:

- In program mode, you can only select repeat 1 or repeat all or repeat Album (for MP3 only) function.
- If the RANDOM function is selected, the REPEAT play mode will be disabled.



## SEARCH PLAY (MP3 disc only)

### Track Search

1. In stop mode, press the FIND TITLE/ESP (25) to start the alphabetic and numerical search.
2. Press the ►►| (20) or |◄◄ (21) repeatedly to select the alphabets (A to Z) and the numbers from 0-9.
3. When the desired track is found, press the PLAY/PAUSE (19) to start playing from the selected track.
4. To exit the search mode or end the play, press the STOP (22).

### Note:

- If no track is found, "X -- NONE" will appear on the display. (where "X" indicates alphabets from A to Z.)

### Album Browse

1. In stop mode, press the FIND TITLE/ESP (25) twice to start to browse the album. The icon of search, ALBUM 01 and its name will be shown on the display.
2. Press the ►►| (20) or |◄◄ (21) repeatedly to select the desired album.
3. When the desired album is shown on the display, press the PLAY/PAUSE (19) to start play all the tracks from the first track of the selected album.

The following is the sorting operation description for "FIND TITLE/ESP" function. Since MP3 CD normally contains many files, the "FIND TITLE/ESP" function makes sorting through files and finding a particular song easier for the user.

1. "FIND TITLE/ESP" by file name:

- Press "TITLE/ESP" (25) once then it can search all the files in the disc.
- Use "F.SKIP" or "B.SKIP" keys to find the letter matching the first letter of the file that you want to find.
- Hold the ►►| (20) and |◄◄ (21) keys for 1-2 seconds until the [ 🔍 ] on the upper left corner stops fresh. Then search the detail file name by pressing ►►| (20) or |◄◄ (21).

2. "TITLE FIND/ESP" by folder album:

- Press "TITLE FIND/ESP" twice and then search by album.
- Press ►►| (20) or |◄◄ (21) button to find the letter that matches the first letter.
- Hold the ►►| (20) or |◄◄ (21) buttons for 1-2 seconds until "Album" disappears. Then search the file in the Album by pressing ►►| (20) or |◄◄(21).

\* If the CD has files in the root directory, the display will show "ROOT" to indicate this.

Hold the ►►| (20) or |◄◄ (21) for 1-2 seconds until "Album" in the LCD display disappears, Then search the files in the root directory by pressing ►►| (20) or |◄◄ (21).

## CASSETTE OPERATION

The 2385AV-03 features a cassette deck for playback and recording from radio, CD, MP3 and microphone.

### LOADING TAPE

To load a cassette tape, press the STOP/EJECT (34) to open the cassette door. Insert tape with playing side label facing you. Close the cassette door to lock the tape in position.

### TAPE PLAYBACK

To play a loaded cassette tape:

1. Press "FUNCTION" (4) to "TAPE" mode
2. Press PLAY (35)
3. Adjust by pressing "VOLUME ▲ (8) and VOLUME ▼ (7)"
4. Select sound field by pressing "EQ" (9) as sequence:



### To STOP PLAYBACK

Press the STOP/EJECT (34)

### To PAUSE PLAYBACK

Press the PAUSE (36) all the way down to lock. To resume play, press the PAUSE key again, and release.

### To FAST WIND/REWIND

Press the REWIND (37) or FAST-FORWARD (38) button. Press the STOP/EJECT key to stop winding at the desired position.

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

## OTHER FEATURES AND FUNCTIONS

**Headphone Jacks.** Two jacks are provided. One 3.5mm jack (26) on the top and one 1/4" phone jack (27) on the rear of the Digital Music Maker cabinet.

**Extension Speaker Jacks.** Stereo extension speakers may be plugged into the 1/4" L (left) and R (right) speaker jacks (28) on the rear of the cabinet.

### **NOTE: WHEN EXTENSION SPEAKERS ARE PLUGGED IN THE INTERNAL SPEAKERS ARE DISABLED**

**Microphone Jack.** To record using a dynamic microphone, plug into the 3.5mm jack (29) on the rear of the cabinet. Another jack, 2.5mm (30) is provided for use with Califone model 4805AV microphone with remote Start/Stop.

**Note.** An internal microphone is located behind the left speaker grille.

**Remote Sensor.** A remote sensor (31) is provided for use with the remote control.

## REMOTE CONTROL

- The remote control provides most functions available on boombox controls. It does not, however, function with tape operations.
- **INTRO.** One feature added to the remote is the "Intro" function. While in the CD mode, press the "PLAY" button, followed by the "INTRO" button. This will give a preview of each track for 10 seconds. Press the INTRO button again to resume normal play. If the INTRO button is not pushed a second time, the preview will continue through the last track. Pushing PLAY, PAUSE or STOP will not disengage the intro function.
- **MUTE.** Mute is another feature added to the remote. It works with tape, AM/FM and CD functions.
- **0-9.** This button allows you to jump forward a number of tracks rather than use the scan forward feature. From stop, pause or play, pushing the 1 and 0 buttons once will show 10, pushing 1 and 5 once will jump to track 15.
- **Other Notes.**
  - The "SCAN/SKIP" buttons are the same as the "Tuner ↑", Skip forward → " and Tuner ↓", Skip backward ← " buttons on the 2385-03.

## TO RECORD FROM MICROPHONE, TAPE, RADIO OR CD

This unit has an ALC (Automatic Level Control) circuit and no other further adjustment of the Volume control is necessary while recording.

Set the FUNCTION Selector to:

TAPE to record from microphone. Plug mic into jack (26) or (29)

AM/FM (5) to record from radio

CD to record from CD.

1. Insert a blank tape into cassette deck A.
2. Press the PAUSE button then the RECORD button on Deck to prepare for recording. As the RECORD button is pressed the PLAY button will follow.

3. Press the PAUSE button again to start recording.

When recording requires a microphone, the jack (29) on the rear of the unit may be used with a cabled mic or with the built-in microphone (42) if using the built-in mic, make sure the source to be recorded is no more than 2 feet from the microphone. This avoids a lower recording level and increased ambient noise.

Note: Every new cassette tape has erase prevention tabs. Commercially prerecorded tapes have the tabs removed to prevent recording over the original material or accidental erasure. Cover the openings with adhesive tape if you wish to record over such cassette tape.

### **TO STOP RECORDING**

Press the STOP/EJECT button on Deck or press the PAUSE key to momentarily stop recording.

### **CUEING WITH THE TAPE COUNTER (40)**

Rewind the tape to the beginning. Press the RESET button to reset the counter to (000). Use the Tape Counter Display to note precise points on an audio tape during playback and to cue the tape to those precise points using the Fast-Forward/Cue or Rewind/Review buttons.

### **COMPACT DISC PLAYER OPERATION**

The Programmable Compact Disc Player plays both 12cm and 8cm MP3 CDs, CD-R, CD-RW without requiring an adapter. Up to 64 tracks can be programmed for play.

### **LOADING A COMPACT DISC**

1. Lift to open the CD door and see "OPEN" on the LCD display.
2. Place a CD in compartment with label side up.
3. Press the CD door down to close.

### **COMPACT DISC PLAY**

To play a loaded CD.

1. Turn power ON.
2. Set the FUNCTION selector to CD.
3. The LCD will show the number of tracks and playing time.
4. Press the PLAY/PAUSE button.

The CD Display will show the current track and playing time.

### **CARE AND HANDLING OF COMPACT DISC**

1. Handle the disc by its edges or center hole. To keep the disc clean, avoid touching the data surface.
2. Data is embedded directly beneath the label, protected only by a thin lacquer and is more vulnerable to damage than the bottom. A scratch that penetrates the label will certainly destroy data, whereas a scratch on the bottom can often be overlooked or corrected by laser pickup.
3. Do not write on the label surface. A ballpoint will damage data; marking pens have solvents that may penetrate the top layer.
4. Do not stick paper or tape on the label surface; this probably won't hurt the disc but it might jam the disc the disc drive.

### **CARE AND HANDLING OF COMPACT DISC (continued)**

5. Do not expose a disc to high temperature or humidity for an extended period of time. The disc material will soften at around 200 degrees Fahrenheit. Allow the disc to reach room temperature before playing if it has been subjected to extreme cold.
6. Preventive cleaning is unnecessary and potentially harmful. Clean only when required.
7. Clean a disc with soft moistened cloth. Pat dry. Wipe the disc from the center out like spokes of a wheel. Never wipe across a disc as you would an LP record.
8. Never use solvents, commercial cleaners or sprays designed for LP's. Plain lukewarm water is best.
9. Keep discs protected at all times.

### **CASSETTE MAINTENANCE & SERVICE CLEANING**

The heads, capstan and pinch roller should be cleaned from time to time to prevent buildup of tape oxide, which degrades performance.

1. Clean the head of all visible, reddish-brown oxide with a cotton-tipped swab moistened with a methyl alcohol or any solution specifically manufactured for this purpose.

**Caution:** DO NOT scrape the head surface with hard, sharp or abrasive objects. This will permanently damage the heads.

2. Clean the pinch roller by scrubbing the surface of the roller with the moistened swab. Rotate the roller by hand until the entire surface is clean.
3. Clean external case surface with a moist, soft cloth. use only a mild detergent water solution.

### **HEAD DEMAGNETIZATION**

It is recommended that the tape heads be demagnetized from time to time. This eliminates residual magnetism which degrades sound reproduction and the recording function.

1. After cleaning the heads capstan, place the demagnetizer several feet away from the cassette unit and plug it into an AC outlet.
2. Follow the manufacturer's operating instructions supplied with the demagnetizer.

### **SERVICE AND REPAIR INSTRUCTIONS**

In the event that service should become necessary for any reason, contact the dealer from whom you purchased this unit. The service or repairs can be done promptly and efficiently by an authorized Califone Repair Facility. If you wish assistance from the factory, write us:

**Attention: Customer Service  
Califone International, Inc.  
1145 Arroyo Ave. #A  
San Fernando, CA 91340**

Or call toll free: (800) 722-0500

Please be sure to have the model and serial number available. Please **DO NOT SHIP ANY UNIT TO THE FACTORY WITHOUT PRIOR AUTHORIZATION AND INSTRUCTIONS.**

## Specifications

Output Power	6W RMS
Radio Frequency Range	AM 525-1710KHz FM 88 – 108 MHz
Cassette Frequency Resp.	80Hz – 12000Hz
CD Frequency Response	20Hz-20,000Hz
Power Supply	AC 120V – 60Hz, 8"D" (UM-1) Cells
Dimensions (WxHxD)	16 1/4"W x 6 1/4"H x 9 1/4"D
Weight	7 lbs.

## Troubleshooting PROBLEMS

### General

The unit does not operate.

### Cassette

Cassette cannot be loaded.

The tape does not move.

The tape gets caught in the tape transport mechanism.

Tape speed is slow.

Tape running is unstable.

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

### Recording

The RECORD key cannot be depressed.

Recording cannot be done.  
The previous recording cannot be erased.

No sound output.

## ITEMS TO CHECK

Is the AC power cord unplugged?  
Are the batteries fully charged?

Is cassette being loaded properly?  
Is the PLAY key depressed?

Is the PAUSE key depressed?

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

Is the tape too old or the quality bad?

Is there excessive slack in the tape?

Are the tape heads dirty?

Is a cassette loaded?  
Is the cassette's erasure prevention tab broken off?

Are the heads dirty?  
Is the erasure head dirty?  
Is the tape type other than type 1 normal bias?

Is the master volume turned up?

**Troubleshooting (continued)**  
**PROBLEMS**

**ITEMS TO CHECK**

**CD**

CD play does not begin.

Is the AC power cord unplugged or loose?  
Is the CD upside down?  
Is the CD or lens excessively dirty?  
Is the disc holder closed properly?  
Is the PAUSE mode on?  
Is the FUNCTION switch on CD mode?

The CD produces no sound

Is there condensation inside the unit? If so, let stand for 1-2 hours until dry.

The CD sound jumps.

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

CD stops immediately.

Is CD loaded upside down?  
Is CD not set properly in tray?  
Is CD excessively dirty?

CD takes too long to start

Press STOP and PLAY/PAUSE again, repeat if necessary.

**AM/FM Radio**

No sound or signal

Is FUNCTION Selector set to Radio?  
Is Band Selector set properly?

Signal is unclear.

Is telescoping antenna fully extended and properly positioned for best reception?

FM Stereo reception is unclear.

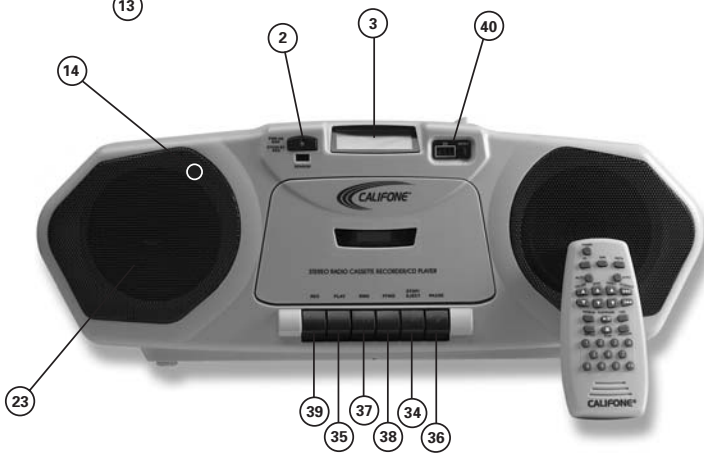
Tune Radio so FM Stereo LED is lit. Adjust antenna if necessary.



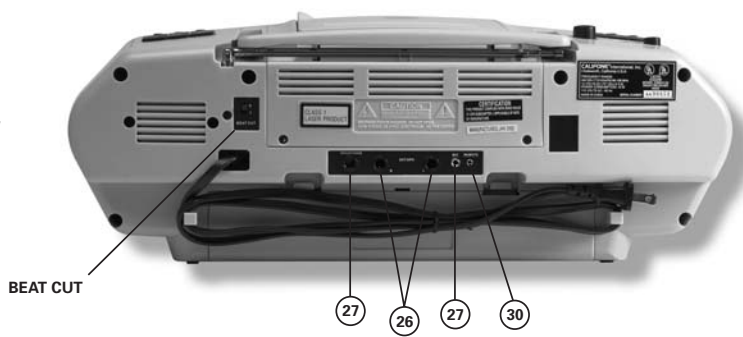
TOP VIEW



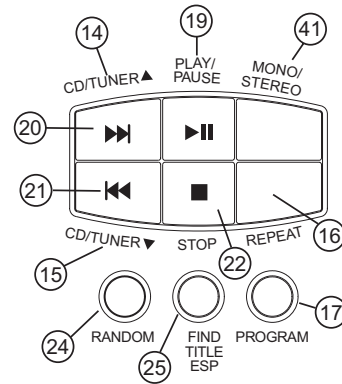
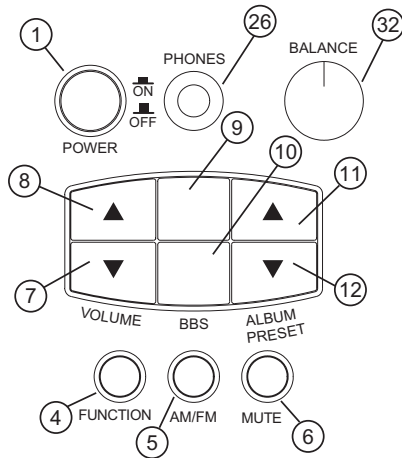
FRONT VIEW



REAR VIEW



## Top View Detail



- |     |                                 |     |                                   |
|-----|---------------------------------|-----|-----------------------------------|
| 1.  | <b>Power On</b>                 | 22. | <b>Stop</b>                       |
| 2.  | <b>Power/Standby Switch</b>     | 23. | <b>Speaker</b>                    |
| 3.  | <b>LCD Display</b>              | 24. | <b>Random</b>                     |
| 4.  | <b>Function (Radio/Cd/Tape)</b> | 25. | <b>Title/Esp</b>                  |
| 5.  | <b>AM/FM</b>                    | 26. | <b>3.5 mm Headphone Jack</b>      |
| 6.  | <b>Mute</b>                     | 27. | <b>1/4" Headphone Jack</b>        |
| 7.  | <b>Volume Down</b>              | 28. | <b>External Speaker Jacks</b>     |
| 8.  | <b>Volume Up</b>                | 29. | <b>Microphone Jack</b>            |
| 9.  | <b>EQ</b>                       | 30. | <b>Mic. Remote On/Off Jack</b>    |
| 10. | <b>Bbs (Bbs On/Off)</b>         | 31. | <b>Remote Sensor</b>              |
| 11. | <b>Album Preset Up</b>          | 32. | <b>Balance Control</b>            |
| 12. | <b>Album Preset Down</b>        | 33. | <b>Carrying Handle</b>            |
| 13. | <b>Telescoping Antenna</b>      | 34. | <b>Stop/Eject</b>                 |
| 14. | <b>Tuner Up</b>                 | 35. | <b>Play</b>                       |
| 15. | <b>Tuner Down</b>               | 36. | <b>Pause</b>                      |
| 16. | <b>Repeat</b>                   | 37. | <b>Rewind</b>                     |
| 17. | <b>Program</b>                  | 38. | <b>Fast Forward</b>               |
| 18. | <b>CD Door</b>                  | 39. | <b>Record</b>                     |
| 19. | <b>Play/Pause</b>               | 40. | <b>Tape Counter</b>               |
| 20. | <b>Skip/Scan Forward</b>        | 41. | <b>Stereo/Mono - FM Mode Only</b> |
| 21. | <b>Skip/Scan Back</b>           | 42. | <b>Internal Microphone</b>        |



**CALIFONE INTERNATIONAL, INC.**  
San Fernando, CA 91340  
*[www.califone.com](http://www.califone.com)*