IMPORTANT SAFETY INSTRUCTIONS

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

The lightening 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.

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.

This product is not designed to function normally in a siring electromagnetic fields. Exposure of the audio quality may esog on wit the product exposed to strong electromagnetic fields. Normal audio quality operation will be resumed when the strong electromagnetic field is no longer present.

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

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. IN THE OPERATING INSTRUCTIONS. RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE REFERENCE.

WATER & MOISTURE - DO NOT USE THE APPLIANCE NEAR WATER, BATH TUB, WASHBOWLS, 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 FOR USE WITH THE APPLIANCE.

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

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 NOT IN USE 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 HAVEfallen OR Liquid HAS BEEN SPILLED INTO THE APPLIANCE; (C) THE APPLIANCE HAS BEEN EXPOSED TO RAIN; (D) THE APPLIANCE DOES NOT OPERATE AS DESCRIBED OR EXHIBITS A MARKED CHANGE IN PERFORMANCE; (E) THE APPLIANCE HAS BEEN DROPPED OR THE ENCLOSURE IS 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 PERSONEL.

Califone® International Inc. - 1145 Arroyo Avenue, # A - San Fernando, CA 91340 USA
Toll Free 800.722.0500 | Toll Free Fax 877.402.2248
International Customers call 818.407.2400 or Fax 818.407.2405 califone.com

2455AV-04
CD, CD-R, CD-RW, MP3-CD Compatible
User Manual
califone.com

Jan 2013
**Product Specifications:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power</td>
<td>14 Watts</td>
</tr>
<tr>
<td>Radio Frequency Range</td>
<td>AM 520 - 1710 KHz</td>
</tr>
<tr>
<td></td>
<td>FM 87.9 - 107.9 KHz</td>
</tr>
<tr>
<td>Cassette Frequency Response</td>
<td>80Hz - 12000 Hz</td>
</tr>
<tr>
<td>CD Frequency Response</td>
<td>20Hz - 20000 Hz</td>
</tr>
<tr>
<td>Disc Compatibility</td>
<td>CD, CD-R, CD-RW, MP3-CDs</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC adapter -(DC 18V 1.8A) (Included)</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>22&quot;W x 8&quot;H x 8.5&quot;D.</td>
</tr>
<tr>
<td>Weight</td>
<td>11 lbs.</td>
</tr>
</tbody>
</table>

**Initial Setup**

**POWER SOURCE**

1. Untie the tie-wrap on the AC ADAPTER.
2. Plug the AC ADAPTER into appropriate wall outlet.
3. Plug the small end of the adapter into the DC JACK on the back of the unit.

**NOTE:**

Califone cassette player/recorders are designed for use only with 60 minute Type 1 Normal Bias recording tape.

---

**Troubleshooting**

<table>
<thead>
<tr>
<th>Problems</th>
<th>Items To Check</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Is the AC adaptor cord unplugged?</td>
</tr>
<tr>
<td>The unit does not operate.</td>
<td></td>
</tr>
<tr>
<td><strong>Cassette</strong></td>
<td>Is cassette being loaded properly?</td>
</tr>
<tr>
<td>Cannot be loaded.</td>
<td>Is the PLAY key depressed?</td>
</tr>
<tr>
<td>Does not move.</td>
<td>Is the PAUSE key depressed?</td>
</tr>
<tr>
<td>The tape gets caught in the tape transport mechanism.</td>
<td>Is the pinch roller or capstan dirty?</td>
</tr>
<tr>
<td>Speed is slow.</td>
<td>Is there excessive slack in the tape?</td>
</tr>
<tr>
<td>Running is unstable.</td>
<td>Is the tape too old or the quality bad?</td>
</tr>
<tr>
<td>There is excessive noise, the sound quivers or there are breaks in the sound.</td>
<td>Are the tape heads dirty?</td>
</tr>
</tbody>
</table>

**Recording**

<table>
<thead>
<tr>
<th>The RECORD key cannot be depressed.</th>
<th>Is a cassette loaded? Is the cassette's erasure prevention tab broken off?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot be done.</td>
<td>Are the heads dirty?</td>
</tr>
<tr>
<td>The previous recording cannot be erased.</td>
<td>Is the erasure head dirty?</td>
</tr>
<tr>
<td>No sound output.</td>
<td>Is the tape type other than type 1 normal bias?</td>
</tr>
<tr>
<td></td>
<td>Is the master volume turned up?</td>
</tr>
</tbody>
</table>
To stop a playing CD
Press the ‘STOP’ button.
For a CD, the display will show “Total Track Number” and “Total Track Time.”
For a MP3 CD, the display will show “Total Album Number” and “Total Track Numbers.”
Note: When you press ‘PLAY’ again the player will return to the first track. The display will show “Track Number” and “Current Track Playing Time.”

To skip forward or backward from track to track during playback
Press the ‘SKIP’ button once and the next track will be displayed and begin playing. Press repeatedly to move forward to the desired track.
Press the ‘SKIP’ button once to return to the beginning of the current track. Press repeatedly to skip back to earlier tracks. Playback resumes from the selected track.

Repeat CD Selections
Repeat one or all programmed selections using the ‘REPEAT’ button. Push the button once to replay any single selection. Push the button twice to replay all programmed selections (in programmed order). Push the button three times to clear the ‘REPEAT’ function. ‘REPEAT ONE’ or ‘REPEAT ALL’ will appear on the display when the ‘REPEAT’ button is pushed.
When playing a MP3 disc, press ‘REPEAT’ --> ‘REPEAT ALBUM’ --> ‘REPEAT ALL’ --> normal playback.

AM/FM Radio Operation
The 2455AV-04 features a AM/FM PLL (phase locked loop) stereo radio and telescopic antenna for local AM and FM stereo reception. To operate the radio:
1. Plug the unit in.
2. Set the “FUNCTION” selector to Radio.
3. Extend the telescope antenna.
4. Select AM, FM or FM Stereo reception band.
5. Use the tuning buttons to select the desired station.
6. Adjust antenna for best reception.

Note: The FM “Stereo” indicator light will appear on the LED display when an FM stereo station is tuned in.
OTHER FEATURES AND FUNCTIONS

Headphone Jacks
Six jacks are provided. One 3.5 mm jack on top and five 1/4” phone jacks on the rear of the cabinet.

Extension Speaker Jacks
Optional stereo extension speakers (SP-2400 Blaster Buddies) can be plugged into the 1/4” L (left) and R (right) speaker jacks on the rear of the cabinet.

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

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

Remote Sensor
A sensor is built into the 2455AV-04 for use with the RC-2455 remote control.

RC-2455 Remote Control
• The RC 2455 offers most functions available on the boombox controls. It does not, however, function with some of the tape operations.

MUTE
Mute is another feature added to the remote. It works with tape, AM/FM and CD functions.

ENTER
This button confirms the input.

Note:
• The ‘SCAN/SKIP’ buttons are the same as the ‘Tuner ▲’/‘Skip forward ▶’ and ‘Tuner ▼’/‘Skip back ◀’ buttons on the boombox.
• The ‘REPEAT’ button is the same as the ‘PRESET/REPEAT’ button on the boombox.
• The ‘TIME’ button is the same as the ‘PLAY TIME’ button on the boombox.

Continuous Play (Deck 1 to Deck 2)
1. Set the ‘FUNCTION’ selector to ‘TAPE’.
2. Load prerecorded cassettes into Deck 1 and Deck 2.
3. Press the ‘PLAY’ button on Deck 2.
4. Press the ‘PAUSE’ and ‘PLAY’ buttons on Deck 1.
5. Adjust the ‘VOLUME’ and ‘TONE’ controls.
6. When the tape in Deck 2 reaches its end, it will automatically stop and the tape in Deck 1 will begin playing automatically.

To Record from Microphone, Tape, Radio or CD
This unit has an ALC (Automatic Level Control) circuit and no further adjustment of the volume control is necessary while recording. Set the ‘FUNCTION’ selector to ‘TAPE’ to record from microphone. Plug mic into AM/FM jack to record from radio or into CD jack to record from CD.

Programming Stations
20 FM stations and 10 AM stations can be saved in memory with the ‘PRESET’ function.

- Select a station to be saved in memory and press the ‘PROGRAM’ button to see ‘--’ on the LCD display.

Memory Display

- Press ‘PRESET’ key to choose the desired channel (e.g. channel 1) then press ‘PROGRAM’ again to save.

Choose Channel 1

- Select another station and press ‘PROGRAM’ again, then press ‘PRESET’ to select channel 2. Press ‘PROGRAM’ again to save.

Press the ‘PRESET’ button to access preset stations until the desired channel is found.

CD Function
The 2455AV-04 CD player accepts both 12 cm and 8 cm discs and will read CD, CD-R, CD-RW and MP3 formats.

MP3 CDs
With MP3 CDs, the 2455AV-04 supports a maximum of 99 folders, 999 files and a file name with a maximum of 64 characters.

It has a MP3 bit range of 32k to 320k, and is compatible with MPEG Audio 1, 2, and 2.5. The MP3 sampling rate is:
- MPEG 1 - Layer 2/3 (32kHz, 44.1kHz, 48kHz)
- MPEG 2 - Layer 2/3 (16kHz, 22.05kHz, 24kHz)
- MPEG 3 - Layer 2/3 (8kHz, 11.25kHz, 12kHz)

Before opening the CD door, the LCD will show dashed lines. Open the CD door and the LCD display will show ‘Open’. Insert a CD and push door closed and the LCD will display the number of tracks and total play time of the disc.

Reading Disc TOC

<table>
<thead>
<tr>
<th>TRACK</th>
<th>After Reading TOC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11 74:59</td>
</tr>
</tbody>
</table>

After Reading TOC

Audio CD

<table>
<thead>
<tr>
<th>TRACK</th>
<th>After Reading TOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A23</td>
<td>T167</td>
</tr>
</tbody>
</table>

MP3 CD

- Press the ‘PLAY/PAUSE’ button to play the CD and the LCD display will show track 1 and the elapsed playing time.

Searching Track 1

Playing Track 1

<table>
<thead>
<tr>
<th>TRACK</th>
<th>Track 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02:20</td>
</tr>
</tbody>
</table>

Note: When playing a CD, the LCD display will show: Track 11 74:59

When playing a MP3 disc, the LCD display will show: Track A99 T256

Visit us online at califone.com
Thank you for purchasing the Califone® 2455AV-04 Performer Plus™.

We encourage you to visit our website www.califone.com to register your product for its warranty coverage, to sign up to receive our newsletter, download our catalog, and learn more about the complete line of Califone® audio-visual products, including portable and installed wireless PA systems, multimedia players and recorders, headphones and headsets, computer peripheral equipment, visual presentation products and language learning materials.

Warranty Registration
Please visit www.califone.com to register your Performer Plus™ Media Player for warranty coverage. This media player is built to the same standards as the rest of our products, which teachers rely on day in and day out. Califone warrants this player to be free from defective material and workmanship for one year from the purchase date. Our “Project Intercept” Customer Satisfaction Program will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use, provided the unit is returned to us at our factory via prepaid transportation only after the factory issues an RA (Return Authorization) number which must be clearly written on the outside of the box.

Unpacking your Performer Plus™
Inspection and inventory of your system. Check unit carefully for damage that may have occurred during transit. Each DVS110 product is carefully inspected at the factory and packed in a special carton for safe transport.

All Damage Claims Must Be Made With The Freight Carrier
Notify the freight carrier immediately if you observe any damage the shipping carton or product. Repack the unit in the carton and await inspection by the carrier’s claim agent. Notify your dealer of the pending freight claim.

Returning your unit for service or repairs
Should your unit require service, contact your dealer or our Customer Service Department at (800) 722-0500 to obtain a Return Authorization (RA) number. All shipments to Califone must include an RA number on the carton and must be shipped prepaid. C.O.D. shipments will be refused and returned at your cost.

Contents
a) 2455AV-04 Performer Plus™
b) RC-2455 Remote Control
c) This Instruction Manual
d) Project Intercept Tag
e) AC Adaptor

Troubleshooting

CD
CD play does not begin.
- Is the AC adapter 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.
- Is the lens or CD excessively dirty?
- Is the unit subjected to excessive vibration?
- Are there any bad scratches on the CD?
- CD loaded upside down?
- Is CD not set properly in tray?
- Is CD excessively dirty?
- Press STOP and PLAY/PAUSE again, repeat if necessary.

CD sound jumps.
- Is the lens or CD excessively dirty?
- Is the unit subjected to excessive vibration?

CD stops immediately.
- Is the lens or CD excessively dirty?
- Is the unit subjected to excessive vibration?

CD takes too long to start
- Is the lens or CD excessively dirty?
- Is the unit subjected to excessive vibration?

AM/FM Radio
No sound or signal
- Is FUNCTION Selector set to Radio?
- Is Band Selector set properly?
- Is telescoping antenna fully extended and properly positioned for best reception?
- Tune Radio so FM Stereo LED is lit. Adjust antenna if necessary.

Signal is unclear.

FM Stereo reception is unclear.

Make sure to register your product for warranty coverage. Visit califone.com
Care and Handling of Compact Discs
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 layer 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 the 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 might jam the disc drive.
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 a 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 LPs. Plain lukewarm water is recommended.
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. Remove cassette tape before cleaning.
2. 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.
3. 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.
4. Clean external case surfaces 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 and 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.

Project Intercept
Please contact us immediately if you experience any difficulties with your Califone product. Our Project Intercept customer service program will repair or replace warranted items. Contact us via phone 1-800-722-0500 or email warranty@califone.com.
Getting Started

The LED display will be in red (for standby mode) when the ‘Power’ button is pushed. Pushing the LED will cause the LED to be green indicating the unit is fully powered up.
- Depressing the ‘Tape’ button will cause the LCD display to show ‘Tape’.
- Depressing the ‘AM/FM’ button will cause the LCD display to show ‘AM’ or ‘FM’.
- Depressing the ‘CD’ button will cause the LCD display to show ‘Disc’.

Digital Volume Control

- The volume control is preset to automatically turn on at volume level “26” upon power up. Press VOL \( \downarrow \) to reduce the volume, the level will be shown in the LCD panel. Minimum volume will show ‘00’ on the LCD display.
- Press VOL \( \uparrow \) to increase the volume. The maximum volume is ‘40’ on the LCD display.

Treble and Bass Controls

TREBLE combined with Volume +/- can be used to adjust the Treble up and down, while BASS combined with Volume +/- can be used to adjust the Bass up and down respectively. Both Treble and Bass can be adjusted in the range of +5 to -5.

PLL Radio Function

- Press ‘AM/FM’ to select the desired reception band. Extend the telescoping antenna for FM. There is a built-in antenna for AM reception. For FM stereo reception the ‘stereo’ will show on the LCD display.
- Press the ‘TUNER’ or ‘TUNER’ \( \downarrow \) button repeatedly until the desired station shows on the LCD display.
- To automatically scan through the frequency bands, hold the ‘TUNER’ button down until you see the speed of the LCD display increase. Scanning will stop when a strong signal is detected.

Electronic Volume Control Display

```
VOL 26
```

```
Treble
TREB+1
```

```
Bass
BASS+2
```

```
AM Band Selection
TUNER
AM 520
```

1. Insert a blank tape into cassette Deck 1.
2. Press the ‘PAUSE’ button then the ‘RECORD’ button on Deck 1 to prepare for recording. As the ‘RECORD’ button is pressed the ‘PLAY’ button will follow.
3. Press ‘PAUSE’ again to start recording.

Dubbing (Recording from Tape 2 to Tape 1)  
1. Insert a blank tape into cassette Deck 1, and the source or prerecorded tape into Deck 2.
2. Press the ‘PAUSE’ button then the ‘RECORD’ button on Deck 1 to prepare for recording. As the ‘RECORD’ key is pressed the ‘PLAY’ button will follow.
3. Press the ‘PLAY’ button on Deck 2, the ‘PAUSE’ button on Deck 1 will release automatically and recording will begin.

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 2 or press the ‘PAUSE’ key on Deck 1 to momentarily stop recording.

Cueing with the Tape 1 Counter

Rewind the tape to the beginning. Press the ‘RESET’ button to reset the counter to [000]. Use the Tape 1 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 2455AV-04 Programmable Compact Disc Player plays both 12cm and 8cm CDs, CD-R, CD-RW without requiring an adapter. Up to 20 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.
4. ‘CLOSE’ will show on the LCD display.

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.

To pause a playing CD

Press the PLAY/PAUSE button again. The playing time will flash on the display. Press ‘PLAY/PAUSE’ again to resume play.

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- To Pause press the ‘PLAY/PAUSE’ button while the disc is playing, the playing time will flash. Pressing the ‘PLAY/PAUSE’ button again will start the disc again from where it paused.
- To select a track to play press the ‘SKIP FORWARD’ [● ●] or ‘SKIP BACK’ [● ●] button either from ‘Stop’ or ‘Pause’. Each press will change the track number by one.

**Searching Forward or Backward on a Track**

If the CD is playing, pressing and holding the ‘SKIP FORWARD’ [● ●] button will advance through the current track until it is over, then proceed to advance through the next track as long as the button is held down. Conversely, pressing and holding the ‘SKIP BACK’ [● ●] button will scan in the reverse direction through the track currently playing and continue through previous tracks as long as the button is held down.
- To stop playing the disc, press the ‘STOP’ button.

**Repeat Playing**

**Audio CD**
- To repeat one track, press the ‘REPEAT’ button one time either while playing or in pause.
- To replay all tracks, press the ‘REPEAT’ button a second time either while playing or in pause.
- A third press of the ‘REPEAT’ button will cancel the repeat command.

**MP3 CD**
- To repeat one track, press the ‘REPEAT’ button one time at stop, play, or pause mode.
- To repeat an album, press the ‘REPEAT’ button again, and the ‘REPEAT ALBUM’ will show on the LCD Display.
- Press the ‘REPEAT’ button once again to cancel.

**Memoy Programming. Up to 20 tracks can be programmed.**

Up to 20 tracks can be programmed for playback.
1. Press ‘STOP’ first if the CD is playing.
2. Press the ‘PROGRAM’ button. The CD display will show PR-01.
3. Press the ‘SKIP Forward’ [● ●] or ‘Skip Back’ [● ●] button to select the first track to program. If it is a MP3 disc, press the ALBUM + and the ALBUM - buttons to select the folder number to program, and then press ‘SKIP Forward’ [● ●] or ‘Skip Back’ [● ●] to select the track to program.
4. Once the desired track is reached, press the ‘PROGRAM’ button into memory.
5. Repeat steps 3 & 4 to program additional tracks.
6. Press the ‘PLAY/PAUSE’ button to start programmed playback.

Note: The program will be erased when you press the STOP button twice.

**Program Input Mode**

<table>
<thead>
<tr>
<th>Track</th>
<th>Repeat</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>4:05</td>
</tr>
</tbody>
</table>

**Choose Track 4**

<table>
<thead>
<tr>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR 01</td>
</tr>
</tbody>
</table>

**Choose Album 1, Track 2**

<table>
<thead>
<tr>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
</tr>
</tbody>
</table>

**Random Play Function**

Pressing the ‘RANDOM’ button during CD play or stop condition will engage random play. Pressing again will cancel the function. Note: If the CD has memory programmed, the random function cannot operate until the program is cleared.

**Play Time Mode**

Pressing the ‘PLAY TIME’ button changes the time format on the LCD from elapsed time of each track to the total time remaining on the CD.

**ID3 Information**

1. When playing a MP3 CD, if the MP3 file has track information stored on it, such as Artist and Title, the LCD will display that information during MP3 CD playback.
2. Press the ‘Play Time’ button to change the format on the LCD from elapsed time of each track to the ID3 information.

Note: If the MP3 was recorded without any track information, the LCD will only show: FILE, TITLE, ARTIST, ALBUM.

**Dual Cassette Operation**

The 245AV-X1 features dual cassette decks for playback, continuous playback (Deck 2 to Deck 1) and recording from tape, radio, microphone or CD on Deck 1 only.

**Loading a Tape**

To load a cassette tape, press the ‘STOP/EJECT’ button on Deck 1 or on Deck 2 to open the cassette door. Insert tape with playing side labeling facing you. Close the cassette door to lock the tape in position. Note: While Deck 1 is in playback mode, Deck 2 must be stopped and not in ‘PLAY’ or ‘PAUSE’ mode for Deck 1 to playback.

**Tape Playback**

To play a loaded cassette tape:
1. Set ‘FUNCTION’ button to ‘TAPE’
2. Press ‘PLAY’ Deck 1 or 2.
3. Adjust ‘VOLUME’.
4. Adjust ‘TREBLE’ and ‘BASS’ controls.

**To Stop Playback**

Press the ‘STOP/EJECT’ key.

**To Pause Playback**

Press the ‘PAUSE’ key all the way down to lock. To resume play, press the ‘PAUSE’ key again, and release.

**To Fast Wind/Rewind**

Press the ‘REWIND’ or ‘FAST FORWARD’ key. Press the ‘STOP/EJECT’ key to stop windinig at the desired position. During regular play, or recording, the tape will stop automatically when its end is reached.