

Cat. No. 14-733

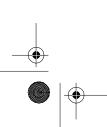
OWNER'S MANUAL

Please read before using this equipment.

CTR-110

Extended Bass AM/FM Cassette Recorder

$OPTIMUS_{\odot}$



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FEATURES

Your Optimus CTR-110 Extended Bass AM/FM Cassette Recorder is a versatile, easy-to-use music system with many useful features. You can record live or from the radio, or just enjoy the radio or cassette player's high quality sound.

The CTR-110's compact design and handy carrying handle let you take it almost anywhere. Its features include:

Dual-Source Recording — lets you record from the radio or use the builtin microphone to make a live shortdistance recording.

Automatic Level Control — automatically adjusts the recording level.

One-Touch Recording — lets you start recording quickly and easily.

Soft Cassette Tape Eject — gently opens the cassette compartment cover so the cassette does not pop out.

PHONE Jack — lets you connect optional earphones so you can listen in privacy.

Extended Bass Switch — boosts low frequency sounds.

Three Power Sources — let you power the CTR-110 from internal

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batteries, standard AC power (using an optional AC adapter), or a vehicle's DC power (using an optional DC adapter). 14-733.fm Page 3 Thursday, July 1, 1999 9:00 AM

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PREPARATION

POWER SOURCES

You can operate the CTR-110 using:

- Internal battery power (using four C batteries)
- AC power (using an optional AC adapter)
- Vehicle battery power (using an optional DC adapter)

Note: Internal batteries automatically disconnect when you connect an adapter.

Using Batteries

You can power the CTR-110 from four C batteries (not supplied). For the best performance and longest life, we recommend alkaline batteries, such as RadioShack Cat. No. 23-551.

1. Turn the CTR-110 on its face, pull the tabs on the battery compartment's cover and remove the cover.

Illustration

2. Put four C batteries in the compartment, as indicated by the polarity symbols (+ and -) marked inside.

Illustration

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Replace the cover and snap it shut.

If the CTR-110 does not operate properly or if the sound weakens or distorts, replace the batteries.

Cautions:

- Dispose of the old batteries promptly and properly. Do not bury or burn them.
- Never leave dead, old, or weak batteries in the CTR-110. Batteries can leak chemicals that can destroy electronic parts.

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 If you do not plan to use the CTR-110 from battery power for a month or more, or if you plan to use only an adapter, remove the batteries to protect the CTR-110 from possible battery leakage.

Using AC Power

You can power the CTR-110 from standard AC power using an optional AC adapter, such as RadioShack Cat. No. 273-1663.

Cautions:

- The recommended AC adapter supplies 6 volts and delivers at least 400 milliamps. Its center tip is set to negative, and its plug correctly fits the CTR-110's DC 6V jack. Using an AC adapter that does not meet these specifications could damage the CTR-110 or the adapter.
- Always plug the adapter into the CTR-110 before you plug it into the AC outlet, and always unplug the adapter from the AC outlet before you unplug it from the CTR-110.
- 1. Set the AC adapter's voltage switch to 6V.

 Insert the AC adapter's 5.5 mm outer diameter/2.1 mm inner diameter barrel plug into the adapter cord's small end so it reads -TIP, then insert the adapter's plug into the DC 6V jack on the back of the CTR-110.

Illustration

3. Plug the adapter into a standard AC outlet.

Using Vehicle Power

You can power the CTR-110 from your vehicle's battery using an optional DC adapter, such as RadioShack Cat. No. 273-1802.

Cautions:

 The recommended DC adapter supplies 6 volts and delivers at least 400 milliamps. Its center tip is set to negative, and its plug correctly fits the CTR-110's DC 6V jack. Using a DC adapter that does not meet these specifications could damage the CTR-110 or the adapter.

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 Always plug the adapter into the CTR-110 before you plug it into the cigarette-lighter socket, and always unplug the adapter from the cigarette-lighter socket before you unplug it from the CTR-110.

Follow these steps to use your vehicle's battery.

Illustration

- 1. Set the DC adapter's voltage switch to 6V.
- Insert the DC adapter's barrel plug into the CTR-110's DC 6V jack.
- 3. Insert the other end of the adapter into your vehicle's cigarette-lighter socket.

USING EARPHONES

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For private listening, you can connect a pair of earphones (not supplied) with a ¹/₈-inch plug. Your local RadioShack store carries a wide selection of earphones. Insert the earphones' ¹/₈-inch plug into the **PHONE** jack on the top of the CTR-110.

Illustration

Note: Connecting earphones automatically disconnects the built-in speaker.

Listening Safely

To protect your hearing, follow these guidelines when you use earphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended highvolume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

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Traffic Safety

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Do not wear earphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones are designed to let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

RADIO OPERATION

- 1. Set **FUNCTION** to **RADIO** to turn on the radio.
- 4. Adjust **VOLUME MIN/MAX** to a comfortable listening level.

Illustration

- 2. Set **BAND** to **AM** or **FM**.
 - Illustration
- 3. Rotate the tuning control to select the desired station.

Illustration

Illustration

 Set E-BASS ON/OFF to ON to boost low frequency sounds. Set it to OFF for normal bass sound.

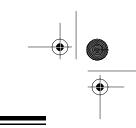
Illustration

6. Set **FUNCTION** to **TAPE** to turn off the radio.

Illustration

Notes:

- The AM antenna is built-in. To improve AM reception, reposition the CTR-110.
- For the best FM reception, fully extend the telescoping antenna and swivel it to the position that produces the best reception.



CASSETTE PLAYER OPERATION

LOADING A CASSETTE TAPE

- Take up any slack in the tape by turning the cassette's hub with a pencil. If you do not remove excess slack, the tape could become tangled in the record/ playback mechanism.
- 4. Gently close the compartment's door.

PLAYING A CASSETTE TAPE

- 1. Set FUNCTION to TAPE.
- 2. With a cassette loaded in the compartment, press **PLAY**.

Illustration

Illustration

2. Press **STOP/EJECT** to open the cassette compartment's door.

Illustration

3. Load the cassette with its open edge facing up, its full reel to the right, and the desired side toward you.

Illustration

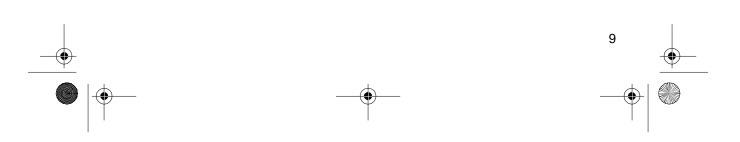
Notes:

• Press **PAUSE** to temporarily stop playback. Press **PAUSE** again to resume playback.

Illustration

 Press FAST-F << to fast-forward, or REWIND >> to rewind the tape to the desired location.

Illustration



- 3. Adjust **VOLUME MIN/MAX** to a comfortable listening level.
- Set E-BASS ON/OFF to ON to boost low frequency sounds. Set it to OFF for normal bass sound.
- 5. Press **STOP/EJECT** to stop playback before it automatically stops. Press **STOP/EJECT** again to open the cassette compartment and remove the cassette tape.

RECORDING

You can record from the radio or use the built-in microphone to make a live recording.

Caution: Before you load a cassette tape for recording, be sure its eraseprotection tabs are in place. If you force down **RECORD** when a tape side's erase-protection tab is missing, you will damage the record mechanism (see "Preventing Accidental Erasure" on Page 11).

Notes:

- The CTR-110's Automatic Level Control (ALC) automatically adjusts the recording level. VOL-UME MIN/MAX has no effect on recording.
- To record on the other side of the tape, you must turn it over.

Recording from the Radio

- Load a blank cassette tape, or one you want to record over, into the cassette compartment.
- 2. Set FUNCTION to RADIO.
- 3. Set **BAND** to **AM** or **FM**.
- Adjust TUNING to the station you want to record.
- 5. Press **RECORD** to begin recording. **PLAY** and **RECORD** lock down.

Illustration

Note: To temporarily stop recording, press **PAUSE**. To resume recording, press **PAUSE** again.

6. Press **STOP/EJECT** to stop recording.

Making Live Recordings

Follow these steps to make live recordings using the built-in microphone.

- Load a blank cassette tape, or one you want to record over, into the cassette compartment.
- 2. Set FUNCTION to TAPE.

- 3. Place the CTR-110 1–2 feet from the recording source.
- Press RECORD to begin recording. PLAY and RECORD lock down.

Note: To temporarily stop recording, press **PAUSE**. To resume recording, press **PAUSE** again.

5. Press **STOP/EJECT** to stop recording.

TAPE TIPS

Recommended Tapes

Tape quality greatly affects the quality of the recording. We recommend extended-range or low noise type 1 regular length (60 or 90-minute) normal-bias cassette tapes. We do not recommend long-play cassette tapes such as C-120s because they are thin and can easily tangle.

Recording Over or Erasing a Cassette Tape

To record over a cassette tape, simply record as usual. The cassette deck records over the previous recording.

You can quickly erase both sides of a cassette tape using a bulk tape eraser available at your local RadioShack store.

Preventing Accidental Erasure

Cassette tapes have two eraseprotection tabs, one for each side. When a tab is in place, you can record on that side.

To protect a recording from being accidentally recorded over or erased, use a screwdriver to remove one or both of the cassette tape's eraseprotection tabs. This prevents **RECORD** from being pressed.

Illustration

If you later decide to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.

Illustration

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Caution: Removing the eraseprotection tabs does not prevent a bulk eraser from erasing a cassette tape.

Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fastforward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

CARE AND MAINTENANCE

Your Optimus CTR-110 Extended Bass AM/FM Cassette Recorder is an example of superior design and craftsmanship. The following suggestions will help you care for your CTR-110 so you can enjoy it for years.



Keep the CTR-110 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the CTR-110 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the CTR-110 away from dust and dirt, which can cause premature wear of parts.



Handle the CTR-110 gently and carefully. Dropping it can damage circuit boards and cases and can cause the CTR-110 to work improperly.

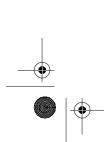


Use only fresh batteries of the required size and type. Batteries can leak chemicals that damage your CTR-110's electronic parts.



Wipe the CTR-110 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the CTR-110.

Modifying or tampering with the CTR-110's internal components can cause a malfunction, invalidate your CTR-110's warranty, and void your FCC authorization to operate it. If your CTR-110 is not performing as it should, take it to your local RadioShack store for assistance.



CLEANING THE TAPE HANDLING PARTS

Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the cassette player's performance. To prevent noise and poor high-frequency response, clean the cassette player's tape handling parts after every 20 hours of use. Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

- 1. Set FUNCTION to TAPE.
- 2. Remove the batteries and disconnect any other power source.
- 3. Press **STOP/EJECT** to open the cassette compartment's cover.
- 4. Hold down the erase-protection tab sensor, then press **RECORD** to expose the tape handling parts.

Illustration

5. Use a cotton swab dipped in tape head cleaning solution or denatured alcohol to gently clean the capstan, pinch rollers, tape guides, and tape heads.

Illustration

6. Press **STOP/EJECT** and close the cassette compartment's cover. Then reconnect power.

THE FCC WANTS YOU TO KNOW

Your CTR-110 might cause TV or radio interference even when it is operating properly. To determine whether your CTR-110 is causing the interference, turn off your CTR-110. If the interference goes away, your CTR-110 is causing it. Try to eliminate the interference by:

- Moving your CTR-110 away from the receiver
- Connecting your CTR-110 to an outlet that is on a different electrical circuit from the receiver
- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your CTR-110.



SPECIFICATIONS

RADIO

Frequency Range:

FM	
AM	530–1710 kHz
Antenna:	
FM	Telescoping Antenna
AM	Ferrite Rod

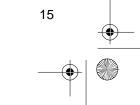
CASSETTE PLAYER

Track System	2 Track Mono
Tape Speed	1 ⁷ /8 inch/second
Recording System	DC Bias, Magnet Erase
Frequency Response (Play) at $\pm 6 \text{ dB}$	125–6300 Hz
Frequency Response (Record/Play) at ±6 dB	125–4000 Hz
Wow and Flutter	0.3% (WRMS)
CENER AL	

GENERAL

Power Requirements	DC 6V (4 C Batteries)
Power Consumption	0.7 W
Dimensions	$\begin{array}{c} 5^{5/_{16}} \times 11 \times 3^{3/_4} \text{ Inches (HWD)} \\ (135 \text{ x } 280 \text{ x } 95 \text{ mm}) \end{array}$
Weight	

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.



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Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack companyowned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABIL-ITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RE-SPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WAR-RANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVE-NIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN AD-VISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

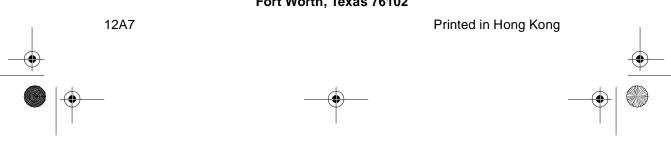
In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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

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