



Cassette Tape Recorder



Owner's Manual
Please read before using this equipment.

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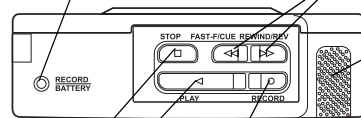
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□ Features

Your RadioShack Cassette Tape Recorder is a convenient and reliable solution for recording live audio. It is small enough to fit in a briefcase or purse, so you can take it almost anywhere.

RECORD/BATTERY — lights when the tape recorder is recording, or lights during play, fast forward and rewind functions if the batteries are weak.

FAST-F/CUE and REWIND/REV — let you fast forward, rewind, and listen to recordings at high speed forward or backward.

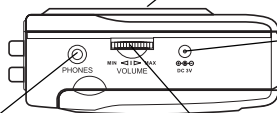


Built-In Microphone

**STOP
PLAY**

RECORD

Built-In Speaker — lets you listen to your recorder without an earphone.



PHONES — lets you plug in an earphone for private listening.

VOLUME

DC 3V Jack — lets you operate your cassette recorder using an AC outlet or your vehicle's battery power (using optional adapters).

Preparation

USING BATTERY POWER

You can power the tape recorder with two AA batteries (not supplied). For the best performance and longest life, we recommend RadioShack alkaline batteries.

You can also use rechargeable nickel-cadmium batteries. These batteries and a battery charger are available at your local RadioShack store.

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.
 - Always dispose of old batteries promptly and properly. Do not burn or bury them.
1. Press down and slide the battery compartment cover in the direction of the arrow, then lift open the cover.

Caution: The battery compartment cover is attached to the recorder. Do not try to remove it.

2. Put the batteries in the compartment as indicated by the polarity symbols (+ and –) marked outside the compartment.
3. Close the cover.

Notes:

- When the sound distorts or weakens, or if the BATTERY/RECORD indicator lights while the recorder is playing, fast-forwarding or rewinding a tape, replace the batteries or recharge the rechargeable batteries with the proper charger.
- If you do not plan to use the tape recorder for a week or more, or if you plan to power it using only an AC or DC adapter, remove the batteries. Batteries can leak chemicals that can damage electronic parts.

Important: The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life,



when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. RadioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.

USING AC OR DC POWER

To power the recorder from an AC outlet or your vehicle's battery power, you need an AC or DC adapter and a size H Adaptaplug™ (neither supplied, available at your local RadioShack store).

Cautions:



You must use a (Class 2 for AC) power source that supplies 3V DC and delivers at least 300mA. Its center tip must be set to negative and its plug must fit the tape recorder's **DC 3V** jack. Using an adapter that does not meet these specifications could damage the tape recorder or the adapter.

- Always connect the adapter to the tape recorder before you plug it into the power source, and unplug the adapter from the power source before you unplug it from the tape recorder.
1. If necessary, set the adapter's voltage switch to **3V**.
 2. Attach the Adaptaplug to the adapter's cord with the tip set to negative (-).
 3. Insert the barrel plug into the recorder's **DC 3V** jack. This disconnects the internal batteries.
 4. Plug the other end of the adapter into the power source.

CONNECTING AN EARPHONE

You can use the supplied earphone to listen to a tape privately. You can also use the earphone during recording to listen to what the recorder is picking up through its microphone (see "Recording" on Page 10).

To use the earphone, insert its $\frac{1}{8}$ -inch (3.5-mm) plug into the cassette recorder's **PHONES** jack.

Listening Safely

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

- 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 high-volume 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.

Traffic Safety

Do not wear an earphone 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 let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

Operation

LOADING A TAPE

1. To prevent the tape from becoming tangled in the tape mechanism, take up any slack in the tape by turning the hub with a pencil. Do not touch the tape.
2. Lift open the tape compartment door and insert a tape into the door's guides with the full reel to the left, the tape's open edge facing out, and the side you want to play/record on facing the compartment's door.
3. Close the compartment door.

PLAYING A TAPE

1. Load a prerecorded tape.
2. Press **PLAY**. **PLAY** locks down and the tape plays.
3. Adjust **VOLUME** to the desired level.
4. To stop the tape before it automatically stops at the end, press **STOP**.

USING FAST-FORWARD AND REWIND

To rapidly advance or rewind the tape, press **FAST-F/CUE** or **REWIND/REV**. The button locks, and the tape fast-forwards or rewinds to the end or until you press **STOP**.

USING CUE AND REVIEW

Holding down **FAST-F/CUE** during play allows you to hear the tape playback at high speed to cue it and quickly locate a desired section on the tape. When you release **FAST-F/CUE**, the recorder resumes normal playback.

Holding down **REWIND/REV** during play allows you to hear the reverse tape playback at high speed to review the tape (play the tape in reverse at high speed). When you release **REWIND/REV**, the recorder resumes normal playback.

RECORDING

Tape quality greatly affects the quality of the recording. We recommend normal bias (Type I, 60- or 90-minute) tapes, available at your local RadioShack

store. We do not recommend long-play tapes because they are thin and can easily tangle.

Note: The ALC (Automatic Level Control) circuit automatically sets the recording level. The **VOLUME** setting has no effect on recording.

1. Load a blank tape, or one you want to record over, into the tape compartment.
2. Press **RECORD** to begin recording. Both **PLAY** and **RECORD** lock down.

Caution: Never try to force down **RECORD** after a tape's erase-protection tabs have been removed. This can damage the recorder (see "Preventing Accidental Erasure" on Page 13).

3. For the best quality recording, place the recorder within 5 feet of the sound source.

Note: The **RECORD/BATTERY** indicator lights as the recorder records.

4. Press **STOP** to stop recording or let the tape automatically stop when it reaches the end.

TAPE TIPS

Restoring Tape Tension and Sound Quality

After you play a 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, fast-forward 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 tape's outer shell on a flat surface.

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

Erasing Tapes

To record over a tape, simply record as usual. The tape deck records over the previous recording. To record over the entire tape, let the tape record to the end.

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

Note: If you use metal or high-bias type tape, the recorded sound might not be erased properly.

Preventing Accidental Erasure

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

To prevent accidental erasure of a tape recording, use a screwdriver to remove one or both of the tape's erase-protection tabs. This prevents **RECORD** from being pressed.

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.

Caution: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a tape.

Care

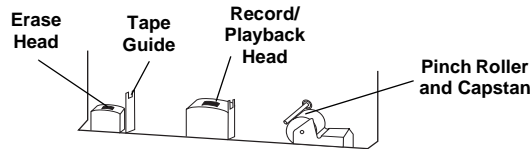
Modifying or tampering with the tape recorder's internal components can cause a malfunction and might invalidate its warranty. If your tape recorder is not performing as it should, take it to your local RadioShack store for assistance.

CLEANING THE TAPE-HANDLING PARTS

Dirt or dust can accumulate on tape heads and other parts the tape touches, greatly reducing the tape player's performance. After every 20 hours of operation, use a tape deck cleaning kit (available at your local RadioShack store), or follow these steps to clean the tape-handling parts.

1. Remove the batteries and disconnect any other power source.
2. Open the tape compartment door.
3. Use a pencil eraser to hold down the protection tab sensor inside the tape compartment, then press **RECORD**. **RECORD** and **PLAY** lock down, exposing the tape-handling parts.

- Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the record/play head, tape guides, pinch roller, capstan, and erase head.



- When you finish cleaning, press **STOP** and close the compartment, then reconnect power.

Specifications

Tape System	2 track, monophonic cassette For use with normal bias tape (Type I) only
Tape Speed	1 ⁷ / ₈ ips (4.75 cm/sec)
Wow and Flutter	0.35% (WRMS)
Signal-to-Noise Ratio	50 dB
Erase System	Magnet
Record System	AC Bias
Power Requirements:	
DC	Two AA Batteries, or 12 Volts from vehicle power source with DC Adapter, 3 Volt DC Output
AC	120 Volts with AC Adapter,

3 Volt DC Output

Dimensions (HWD) $4\frac{9}{16} \times 3\frac{2}{3} \times 1\frac{1}{2}$ inches
(121 × 93 × 38 mm)

Weight (without batteries)..... 8.125 oz (230 g)

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

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 company-owned 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 LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT 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 WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation 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 may be used in the performance of warranty service. Repaired or replaced 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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