



Cat. No. 32-1156

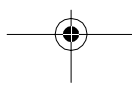
OWNER'S MANUAL

Please read before using this equipment.

KARAOKE CASSETTE RECORDER SYSTEM



Radio Shack



FEATURES

Your Radio Shack Karaoke Cassette Recorder System lets you be the “star” as you sing along with your favorite recordings and hear your voice through the speaker along with the music. You can sing along with regular cassette tapes or use special karaoke cassette tapes (such as the supplied tape) that let you select the prerecorded singer’s voice, your voice, and the music tracks.

The system’s compact design and convenient carrying handle let you take it almost anywhere. You can also connect another audio source (such as a stereo VCR or a CD player) to the system and sing along. If you connect a stereo VCR, you can play karaoke video cassettes that let you sing along with music videos that show the lyrics on a TV.

Note: Additional karaoke audio cassettes, as well as karaoke video cassettes, are available through Radio Shack Unlimited. Contact your local Radio Shack store for ordering information.

This system’s features include:

Supplied Karaoke Audio Tape—lets you sing along with the music.

Auxiliary Input Jack—lets you connect another audio source such as a stereo VCR or CD player.

Supplied Microphone—lets you sing along with the music and hear your voice through the speaker.

Dual Microphone Jacks—let you use two microphones simultaneously to sing duets or for lead and background vocals.

Separate Microphone Volume Controls—let you adjust the volume of your duet partner/background singer separately or use the system as a 2-channel microphone mixer.

Recording—lets you record your voice as you sing along with an external audio source connected to the system.

Tape Channel Switch—when you use a karaoke cassette tape, you can choose to sing along with only the music, only the prerecorded voice, or both.

Vocal Changer Switch—temporarily mutes the prerecorded singer’s voice when you use a karaoke tape and sing into the microphone.

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Tone—lets you set the tone to low or high.

Echo—lets you add an echo to your voice for a concert hall effect.

Built-In Speaker—lets you share the music with friends.

Three Power Sources—let you power your system from internal batteries, a standard AC outlet (using the supplied adapter), or your vehicle's battery (using an optional adapter).

Warning: To prevent fire or shock hazard, do not expose this system to rain or moisture.

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



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the system's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the system's case.



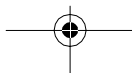
This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this system.





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CONNECTIONS



CONNECTING POWER

Installing Batteries

You can power your system with six D batteries (not supplied). For the best performance, we recommend alkaline batteries, such as Radio Shack Cat. No. 23-550.

Follow these steps to install the batteries.

1. Press the battery compartment cover's tab and lift off the cover.

2. Install the batteries in the compartment as indicated by the polarity symbols (+ and -) marked next to the compartment.

Note: Use only fresh batteries of the required size and type. Always remove old or weak batteries. Batteries can leak chemicals that can destroy electronic circuits.

3. Replace the cover.

If you are operating the system using battery power and the sound becomes weak or distorted, replace the batteries.

Caution: To avoid damage from leaking batteries, remove the batteries if you do not plan to use the system for a week or more. Also, do not leave batteries in the system if you plan to use AC or DC power for an extended period of time.

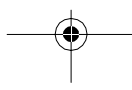
Using AC Power

You can power the system from a standard AC outlet using the supplied AC adapter.

Cautions:

- The adapter must supply 9 volts, its center tip must be set to negative, it must deliver 500 milliamps, and its plug must correctly fit the **DC 9V INPUT** jack. The supplied adapter meets these requirements. Using any other adapter could damage the system or the adapter.
- Always unplug the adapter from the AC outlet before unplugging it from the system.

1. Remove the supplied AC adapter from the microphone/adapter compartment on the back of the system.



2. Insert the adapter's plug into the system's **DC 9V INPUT** jack.

end into the vehicle's cigarette-lighter socket.

3. Plug the adapter into a standard AC outlet.

Caution: To avoid electrical shock and damage to the system and vehicle, always unplug the adapter from the cigarette-lighter socket before unplugging it from the system.

Using Vehicle Battery Power

CONNECTING ANOTHER AUDIO SOURCE

You can power the system from your vehicle's battery if the vehicle has a 12-volt DC, negative-ground electrical system. This connection requires a DC adapter, such as Cat. No. 270-1562.

You can connect another audio source (such as a stereo VCR or CD player) to the system so you can sing along with the audio source's sound. Connect the source's headphone output jack to the system's **AUX INPUT** jack.

Cautions:

- If you are not sure what type of electrical system your vehicle has, check with the vehicle dealer.
- The adapter must supply 9 volts, its center tip must be set to negative, it must deliver 500 milliamps, and its plug must correctly fit the **DC 9V INPUT** jack. The recommended adapter meets these requirements. Using any other adapter could damage the system or the adapter.

Note: If your audio source has AUX OUT jacks (such as those found on a stereo VCR or CD player), use a shielded Y-adapter cord with phono plugs on each end (such as Cat. No. 42-2475). Connect the end with the single plug to the system's **AUX INPUT** jack and connect the other end's two phono plugs to the AUX OUT jacks on the audio source.

Plug the smaller end of the adapter into the **DC 9V INPUT** jack on the back of the system. Then plug the larger



USING THE CASSETTE DECK

LOADING A CASSETTE TAPE

1. Press **STOP/EJECT** to open the cassette compartment.
2. Use your finger or a pencil to turn the cassette's hub and take up any tape slack. Avoid touching the tape with your fingers.

PLAYING A CASSETTE TAPE

Caution: To protect your hearing, set **MASTER VOLUME** to **MIN** before you play a cassette tape.

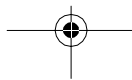
1. Load a cassette tape in the cassette compartment.
2. Set **POWER** to **ON** to turn on the system. The **POWER** indicator lights.

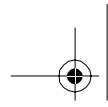
3. Set **TAPE/AUX** on the back of the system to **TAPE**.

3. Load the cassette tape with its open edge facing down, the side you want to play or record on facing you, and the full reel to the left.

4. Press **PLAY**.
5. Adjust **MASTER VOLUME** and set **STONE** to the desired listening level.

4. Close the compartment.



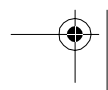
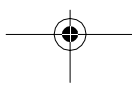
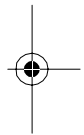
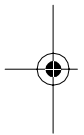


6. Press **STOP/EJECT** to stop the tape. Press **STOP/EJECT** again to open the cassette compartment, and remove the cassette tape.

To play the other side, turn the tape over, load it, and press **PLAY**.

Notes:

- To temporarily stop play, press **PAUSE**. Press **PAUSE** again to resume play.
- To rapidly wind the tape forward or backward while the tape is stopped, press **FAST-F** or **REWIND**. Press **STOP/EJECT** when you reach the desired section.





LISTENING TO ANOTHER AUDIO SOURCE



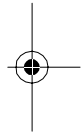
If you connected another audio source to the system as described in “Connecting Another Audio Source,” follow these steps to listen to that source.

Caution: To protect your hearing and prevent damage to the system, always set the source’s and the system’s volume controls to their lowest settings before turning on the source and the system.

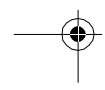
1. Set **TAPE/AUX** on the back of the system to **AUX**.

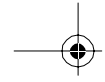


2. Turn on the audio source.
3. Set **POWER** to **ON** to turn on the system. The **POWER** indicator lights.
4. Adjust **MASTER VOLUME** and set **TONE** to the desired listening level.



5. To turn off the system, set **POWER** to **OFF**. The **POWER** indicator turns off. Then turn off the audio source.





SINGING ALONG

Now get ready for some fun! In this section, we tell you how to use your system's karaoke features. First, set the system's and the source's volume controls to their minimum settings. Then plug the supplied microphone's 1/4-inch plug into **MIC 1** or **MIC 2**.

Tape Channel — When you use a karaoke cassette tape, lets you sing along with the music only (**MUSIC** setting), with both the prerecorded singer's voice and the music (**NORMAL**), or with the prerecorded singer's voice at normal volume and the music at a lower volume (**VOCAL**).

Note: Your friend can also sing along with the music if you connect a unidirectional 600-ohm dynamic microphone with a 1/4-inch plug to the system's other **MIC** jack. For the best performance, we recommend Cat. No. 33-992.

Vocal Changer — When you use a karaoke cassette tape with **TAPE CHANNEL** set to **NORMAL**, you can set **VOCAL CHANGER** to **ON** to mute the prerecorded singer's voice when you sing into the microphone.

You can use these controls to get the sound just right:

Echo — This adds an echo effect to your voice while you sing. Set **ECHO** to **LOW**, **MID**, or **HIGH** for the desired effect.

SINGING WITH A CASSETTE TAPE

Follow these steps to sing along with a regular or karaoke cassette tape (such as the one supplied).

1. Set **MASTER VOLUME** to **MIN**.
2. Set **POWER** to **ON** to turn on the system. The **POWER** indicator lights.

Note: The digital echo only affects the microphone's sound, not the sound that comes from the audio input source.

3. Load a prerecorded cassette tape.
4. Set **TAPE/AUX** on the back of the system to **TAPE**.
5. Press **PLAY** to play the tape.
6. Adjust **MASTER VOLUME** to the desired sound.
7. Set **TONE** to **LOW** or **HIGH**.
8. Set the microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music.

9. Use **MIC 1** or **2's VOLUME** to adjust the microphone's volume.

10. Adjust **ECHO** to add an echo to your voice.
11. If you are using a karaoke cassette tape, set **TAPE CHANNEL** to **MUSIC**, **NORMAL** or **VOCAL**.

Note: With a regular (non-karaoke) tape, you cannot separate the prerecorded original singer's voice and the music.

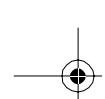
12. If you are using a karaoke cassette tape and **TAPE CHANNEL** is set to **NORMAL**, set **VOCAL CHANGER** to **ON** or **OFF**.
13. When you finish, press **STOP/EJECT** to stop the tape, set the microphone's **ON/OFF** switch to **OFF**, and set **POWER** to **OFF** to turn off the system. The **POWER** indicator turns off.

SINGING WITH ANOTHER AUDIO SOURCE

If you connected another audio source as described in "Connecting Another Audio Source," follow these steps to sing along with the sound from that audio source.

Caution: To protect your hearing, set the system's and the source's volume to their lowest settings before you turn on the system and the audio source.

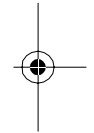
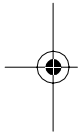
1. Set **POWER** to **ON** to turn on the system. The **POWER** indicator lights.
2. Set **TAPE/AUX** on the back of the system to **AUX**.



3. Turn on the audio source.

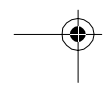
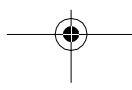
Note: If you are using a karaoke video cassette, turn on the TV connected to the VCR to see the lyrics for the song.

4. Adjust **MASTER VOLUME** and set **TONE** to **LOW** or **HIGH** for the desired sound.
5. Set the supplied microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music. Use **MIC 1** or **2**'s **VOLUME** to adjust your voice's volume.



Note: If you are using a karaoke video cassette, adjust the system's controls as described in Steps 10 and 11 of "Singing with a Cassette Tape."

6. When you finish, turn off the audio source, set the microphone's **ON/OFF** switch to **OFF**, and set **POWER** to **OFF** to turn off the system. The **POWER** indicator turns off.





RECORDING



You can record as you sing along with the music from another audio source. You can also record only the sound from the external audio source.

RECORDING TIPS

- Tape quality greatly affects the quality of the recording. We recommend Radio Shack Extended Range or Low-Noise Type 1 tape.
- Before recording, be sure the tape you are recording on has its erase-protection tabs in place (see "Preventing Accidental Erasure").
- Recording automatically stops when the tape reaches the end. To record on the other side, turn the tape over.

RECORDING YOUR VOICE WITH MUSIC

Follow these steps to record your voice along with music from an audio source connected to the system's **AUX INPUT** jack.

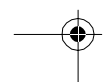
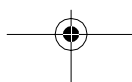
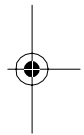
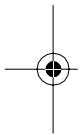
1. Load a blank cassette tape or one that you want to record over into the system's cassette compartment.

Note: If you are using a prerecorded cassette tape as your music source, load that tape in the audio source's cassette compartment.

2. Follow Steps 1-5 under "Singing with Another Audio Source."
3. Press **RECORD** on the system to begin recording. **RECORD** and **PLAY** both lock down.

Note: Press **PAUSE** on the system to temporarily stop recording. Press **PAUSE** again to resume recording.

4. Press **STOP/EJECT** on the system to stop recording. **RECORD** and **PLAY** release.
5. Stop the audio source.





RECORDING FROM ANOTHER AUDIO SOURCE

Follow these steps to just record (without adding your voice) from an audio source connected to the system's **AUX INPUT** jack.

1. Load a blank cassette tape, or one that you want to record over, into the cassette compartment.
2. Set **POWER** to **ON** to turn on the system. The **POWER** indicator lights.
3. Set **TAPE/AUX** on the back of the system to **AUX**.
4. Press **PAUSE**, then **RECORD** on the system. **RECORD** and **PLAY** both lock down.

5. Start the audio source.
6. Press **PAUSE** on the system to start recording.

Notes:

- Press **PAUSE** on the system to temporarily stop recording. Press **PAUSE** again to resume recording.
 - You can listen through the system to the audio source as you record it. Set **MASTER VOLUME** to a comfortable listening level. The volume setting does not affect the recording level.
7. Press **STOP/EJECT** on the system to stop recording. **RECORD** and **PLAY** release.
 8. Turn off the audio source.

MAINTENANCE

Your Radio Shack Karaoke Cassette Recorder System is an example of superior design and craftsmanship. The following suggestions will help you care for your system so you can enjoy it for years.



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



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



Use and store the system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.



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



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

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

TAPE TIPS

Erasing a Cassette Tape

To erase a previously recorded section of a tape, simply record over it. To erase the entire cassette tape, let the tape record silence to the end with all controls set to their minimum settings and the microphone(s) turned off.

You can quickly erase both sides of a cassette tape using a bulk tape eraser (Cat. No. 44-232), available at your local Radio Shack store.

Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each 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 erase-protection tabs.

If you want 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.

Note: Removing the erase-protection 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, 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 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.

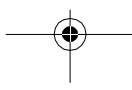


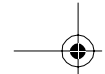
Cleaning the Tape-Handling Parts

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 performance of the cassette player. Use the following cleaning procedure after every 20 hours of tape player operation.

1. Remove the batteries and disconnect the AC or DC power cord.
2. Open the cassette compartment door.
3. Press **PLAY** to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head-cleaning solution to clean the record/play head, pinch roller, capstan, and erase head.
5. When you finish cleaning, press **STOP/EJECT** and close the cassette compartment door.

Your local Radio Shack store sells a complete line of cassette cleaning supplies.

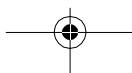




SPECIFICATIONS

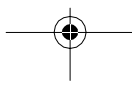
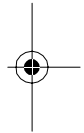
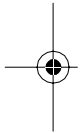
Power Output	1 Watt (at 10% THD)
Track System	4-Track 2-Channel Stereo
Tape Speed	4.75 cm/sec
Recording System	DC Bias
Erasing System	Magnetic
Wow and Flutter (WRMS)	Less than 0.35%
Record/Play Frequency Response (at ± 3 dB)	125 Hz – 6.3 kHz
Signal-to-Noise Ratio	40 dB
Speaker	4-Inch (4 ohms)
Power Source	AC 120 V, 60 Hz, 500 MW 6 D Batteries 12V Vehicle Battery with DC Adapter (Cat. No. 270-1562)
Battery Life	Approx. 40 hours
Dimensions	13 ¹ / ₂ x 11 ⁷ / ₁₆ x 5 ⁷ / ₈ Inches (HWD) (343 x 290 x 150 mm)
Weight (without batteries)	7 lbs 11 oz (3.5 Kg)

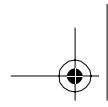
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.





NOTES





RADIO SHACK LIMITED WARRANTY

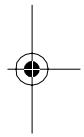
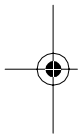
This product is warranted against defects for 90 days from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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

We Service What We Sell

9/94



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Fort Worth, Texas 76102

2A5

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