

FEATURES

Your MKS 2450 Memorex Single Cassette Recorder Karaoke 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 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 CD player) to the system and sing along.

Your MKS 2450 Memorex’s features include:

- 1. Dual Microphone Jacks ----** let you use two microphones simultaneously to sing duets or for lead and background vocals. (extra microphone not included.)
- 2. Vocal Changer Switch ----** temporarily mutes the prerecorded singer’s voice when you use a karaoke tape and sing into the microphone.
- 3. Tone ----** lets you set the tone to low , middle or high.
- 4. Echo ----** lets you add an echo to your voice for a concert hall effect.
- 5. Built-In Speaker ----** lets you share the music with friends.
- 6. Function Select**
- 7. Master Volume**
- 8. MIC Volume**
- 9. Power ON/OFF Switch**
- 10. Cassette Compartment**

Remark:

- **Supplied Karaoke Audio Tapes ----** lets you sing along with the music. Sing along to today’s hottest songs.
- **Supplied Microphone ----** lets you sing along with the music and hear your voice through the speaker.

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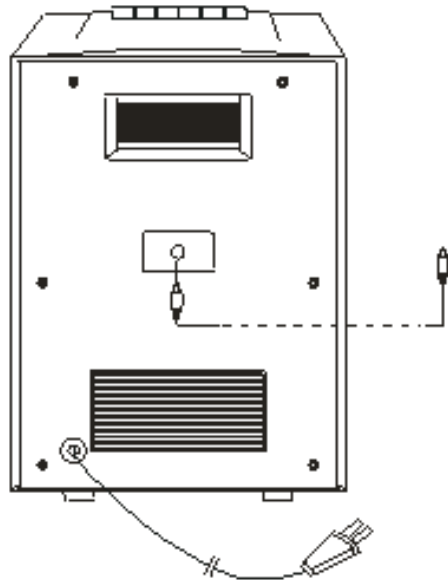
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CONNECTIONS

CONNECTING ANOTHER AUDIO SOURCE

You can connect another audio source (such as a 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.

Note: If your audio source has AUX OUT jacks (such as those found on a CD player), use a shielded Y-adaptor cord with phono plugs on each end. 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.



CONNECTING POWER

When you have made all other connections, plug your system's power cord into a standard AC outlet. Make sure the supply voltage of your home corresponds with the voltage rating of this unit (AC 120V / 60 Hz).

Caution: The supplied power cord has a polarized plug that fits into the outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

USING THE CASSETTE DECK

LOADING A CASSETTE TAPE

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

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. Press **POWER** to turn on the system. The **POWER** indicator lights.
3. Set **FUNCTION** on the front of the system to **TPAE**.
4. Press **PLAY**.
5. Adjust **MASTER VOLUME** and set **TONE** to the desired listening level.
6. Press **STOP/EJECT** to stop the tape. Press **STOP/EJECT** again to open the cassette 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.

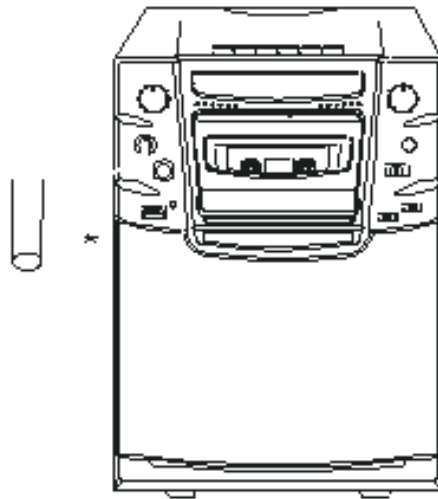
LISTENING TO ANOTHER AUDIO SOURCE

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 **FUNCTION** on the front of the system to **AUX**.
2. Turn on the audio source.
3. Press **POWER** 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, press **POWER** and 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 **MIC1** or **MIC2**.

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. (Additional microphone not included.)

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.

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

Vocal Changer ---- When you use a karaoke cassette tape, you can set **VOCAL CHANGER** to **ON**

to mute the prerecorded singer's voice when you sing into the microphone.

SINGING WITH A CASSETTE TAPE

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

1. Set **MASTER VOLUME** to **MIN**.
2. Press **POWER** to turn on the system. The POWER indicator lights.
3. Load a prerecorded cassette tape.
4. Set **FUNCTION** on the front 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**, **MIDDLE**, or **HIGH**.
8. Set the microphone's **ON/OFF** switch to **ON**.
9. Sing directly into the microphone along with the music.
10. Adjust **ECHO** to add an echo to your voice.
11. When you finish, press **STOP/EJECT** to stop the tape, set the microphone's **ON/OFF** switch to **OFF**, and press **POWER** 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. Press **POWER** to turn on the system. The POWER indicator lights.

2. Set **FUNCTION** on the front of the system to **AUX**.
3. Turn on the audio source.
4. Adjust **MASTER VOLUME** and set **TONE** to **LOW, MIDDLE, 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 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 9 and 10 of "Singing with a Cassette Tape."

When you finish, turn off the audio source, set the microphone's **ON/OFF** switch to **OFF**, and press **POWER** 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 Extended Range or Low-Noise Type 1 tape. We do not recommend long-play cassette tapes, such as C-120s, because they are thin and can easily tangle in the cassette mechanism. For low-noise, wide-range recordings, use normal-bias tape.

Before recording, be sure the tape you are using 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 over the tape.

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 tape, or one that you want to record over into the system’s cassette compartment, with the side you want to record on facing you, and the full reel to the left.
2. Follow Steps 1-5 under “Singing with Another Audio Source”.
3. Press **RECORD** on the system to begin recording. **RECORD** and **PLAY** will both locks down.
4. Press **STOP/EJECT** on the system to stop recording. **RECORD** and **PLAY** will 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. Press **POWER** to turn on the system. The POWER indicator lights.
3. Set **FUNCTION** on the front of the system to **AUX**.
4. Press **PAUSE**, then **RECORD** on the system. Both **RECORD** and **PLAY** will be locked 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

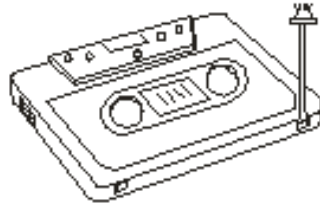
Your MKS 2450 Memorex Single Cassette Recorder Karaoke System is an example of superior design and craftsmanship. The following suggestions will help you care for the system, so you can enjoy it for years.

- Keep the system dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Use and store the karaoke system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.
- Keep the karaoke system away from dust and dirt, which can cause premature wear of parts.
- Handle the karaoke system gently and carefully. Dropping it can damage circuit boards and cabinet and can cause the karaoke system to work improperly.
- Wipe the karaoke system with a cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the karaoke system.

Modifying or tampering with the karaoke system's internal components can cause a malfunction and will invalidate its warranty.

TAPE CARE TIPS

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.

Notes:

- Be sure you cover only the hole originally covered by the erase-protection tab.
- Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

Erasing a Cassette Tape

If you no longer want a recording, you can record over it or erase it.

To erase a previously recorded section of a tape, simply record over it.

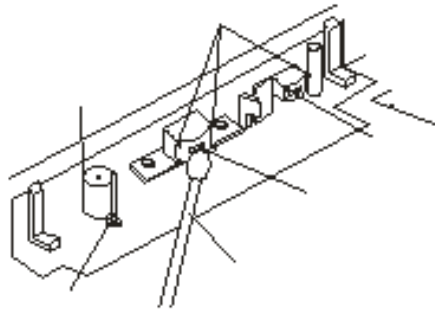
To erase the entire cassette tape, record silence to the end with all controls set to their minimum settings and the microphone(s) turned off.

You can quickly erase both sides of a cassette tape using a bulk tape eraser.

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. Disconnect the AC power cord.
2. Open the cassette compartment doors on the system.
3. Press PLAY on the system 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 heads, pinch rollers, capstans, tape guides, and erase heads.



5. When you finish cleaning, press STOP/EJECT on the system and close the cassette compartment doors. Then reconnect power.

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.

SPECIFICATIONS

Power Output (at 10% THD) 1.5 Watts per Channel

Track System 4 Track, Two Channel Stereo

Tape Speed 1 7/8 ips

Recording System AC Bias

Erasing System

Magnetic

Wow and Flutter (WRMS) Less Than
0.35%

Record/Play Frequency Response (at ± 3 dB) 125-
6300 Hz

Signal-To-Noise
40 dB

Speaker 4-inch (4
ohm)

Microphone (Monaural) Impedance
600 Ohm

Power Source AC 120V, 60 Hz, 500
MW

Dimensions (HWD) 342.96 x 254 x
152.5mm

Weight
2.43 kg

Included Accessories
Microphone

3 Karaoke Cassettes.

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