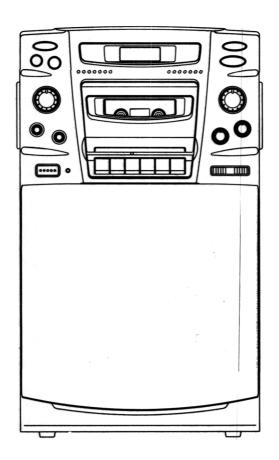


# CD GRAPHIC KARAOKE RECORDER WITH SINGLE CASSETTE PLAYER

**MODEL: MKS 3001** 



### BEFORE OPERATING THIS PRODUCT PLEASE READ THESE INSTRUCTION COMPLETELY

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This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U. S. Department of Health and Human Services.

#### Warnings:

This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.

Note: Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of U. S. Copyright laws for a consumer to use an audio recording device to duplicate musical recordings for noncommercial (personal) use.

#### **FEATURES**

Your Memorex CD-G Cassette Karaoke System is one of the most versatile karaoke systems available. It lets you be the "star" as you sing along with your favorite recordings on a CD, a CDG (a compact disc with a graphic track), a cassette tape, and hear your voice with the music through the powerful built-in speaker.

The karaoke system's CDG capability is the latest advancement in karaoke technology. It lets you connect the karaoke system to a TV or monitor and read the lyrics of your favorite tunes as they scroll by in front of a still video graphic, such as a picture or drawing related to the music.

You can sing along without video graphics using special karaoke audio cassette tapes that let you balance the volume of the original singer's voice and the music tracks. Or, you can sing along with a regular prerecorded cassette tape or CD (not Supplied).

Plus, your karaoke system can be used as a small PA system for speaking at parties or other gatherings - just plug in the microphone and turn on the power! Your karaoke system's features include:

CD/CD+G Player - lets you play regular or karaoke CDs, or special CD+Gs so you can experience digital images the latest in karaoke fun! Plus, the player's 16 bit D/A converter and 8 times oversampling produce high quality sound.

**Analog Echo Control** - lets you add an echo to the sound for a concert hall effect.

**Vocal Changer** - lets you replace the prerecorded original singer's voice with your voice when you use a karaoke tape or CD-G, so you can sing solo.

Cassette Deck - lets you play the Karaoke cassette tapes, or record from CD to tape.

**Auto-Stop** - automatically stops a tape when it finishes playing or recording, to protect the tape and tape-handling parts.

**20-Track Programmable Memory** - lets you pace your own performance by programming up to 20 CD tracks in the order you want to hear them.

**Auxiliary Output Jacks** - for connecting to another audio component, such as an booster or a PA system.

**Automatic Search** - lets you quickly locate and play any track on the loaded CD/CD+G.

**Supplied Karaoke CD+G** - lets you sing along with the music and adjust the volume of the prerecorded voice and music.

**Dual Microphone Jacks** - let you use the supplied microphone simultaneously to sing duets or for lead and background vocals.

Recording - lets you record your voice as you sing along with a tape or CD/CD+G

Tape Speed Control - lets you adjust the tape speed to match your voice pitch.

**Vocal Changer** - lets you replace the prerecorded original singer's voice with your voice when you use a karaoke tape or CD-G, so you can sing solo.

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### **CONTENTS**

Connections	
Connecting Microphones	
Connecting an External Audio Component for Output	
Connecting to a TV	
Connecting Power	9
•	
Singing Along/Quick Start	10
Singing with a CD/CD+G or a Cassette Tape	10
Through Another Audio Component	
System Operation	13
Tuning the System On/Off	
Adjusting the Sound	
Echo Control	
CD/CD+G Player Operation	15
CD/CD+G Flayer Operation	
Playing a CD/CD+G	.15
Special CD/CD+G Player Features	.16
Automatic Search	16
Programmed Play	17
Programming and Playing a Sequence of Tracks	17
Reviewing/Replacing a Programmed Sequence	18
Erasing a Programmed Sequence	18
CD/CD+G Care Tips	19
<b>,</b>	
Cassette Deck Operation	
Loading a Tape	20
Playing a Tape	20
Normal Play	20
Tape Care Tips	22
Preventing Accidental Erasure	
Erasing a Cassette Tape	22
Cleaning the Tape-Handling Parts	22
Restoring Tane Tension and Sound Quality	23

Using Optional Components	5	24	
Listening Through Another A	Audio Component	24	
Recording A Cassette Tape.		25	
Recording Your Voice with M	usic	25	
Troubleshooting		26	
Care and Maintenance		27	
The FCC Wants You to Know	······································	28	
Specifications		29	

Caution: To avoid electrical shock, do not connect the system to AC power until all other connections are complete.

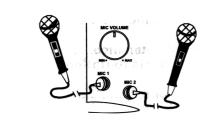
If you are connecting only one microphone, plug it into MIC 1. If you are adding a second microphone, plug it into MIC 2.

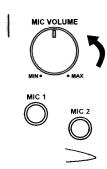
## CONNECTING MICROPHONES

The system has two microphone jacks so you can use the supplied microphone to sing along to your favorite recordings, and connect an additional microphone (not supplied) for duets or lead and background vocals.

For the best performance, the additional microphone should be a unidirectional 600-ohm dynamic microphone with a 1/4inch (6.35-mm) plug and an ON/OFF switch.

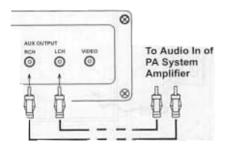
Before you connect a microphone always turn VOLUME to MIN on MIC.





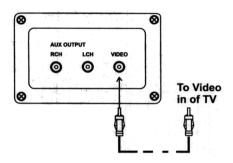
#### Connecting an External Audio Component for Output

You can broadcast the karaoke system's sound through an external audio component such as a PA system amplifier. Connect the external audio component's audio input jacks to the karaoke system's AUX OUT R and L jacks.



#### **CONNECTING TO A TV**

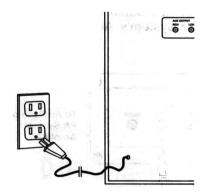
You can connect the CD/CD+G karaoke system to a TV or monitor and see the words and images produced by a special karaoke video cassette or CD/CD+G. Plug one end of the supplied cable into VIDEO OUT and the other end into your TV's video in jack.



Note: For TVs that do not have an audio/video input jack, use a video modulator. Connect the RF modulator to VIDEO OUT and to the TV's 75-Ohm VHF input terminal, following the instructions in the modulator's owner's manual.

#### **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 120 V/60 Hz).

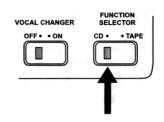


Caution: The supplied power cord has a polarized plug that fits into the outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

#### SINGING ALONG/QUICK START

The instructions in this section provide a quick reference to help you get started singing along with your karaoke CD/CD+G system. For details on using the system's various features such as the CD/CD+G player, cassette deck, see the feature's section in this Manual.

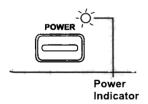
### 3. Set FUNCTION SELECTOR to CD/CDG or TAPE.



#### SINGING WITH A CD/CD+G OR A CASSETTE TAPE

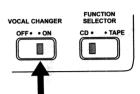
Follow these steps to sing along with a CD/CD+G or a cassette tape (such as the ones supplied).

1. Press **POWER** (if necessary) to turn on the system. The **POWER** indicator turns on.



2. Load a CD/CD+G in the CD compartment. Or, if you want to sing along with a prerecorded tape, load it in the tape deck.

4. Set **VOCAL CHANGER** to on, to enjoy both the music and original singer's voice. Whenever you sing along, the original singer's voice is cancelled.

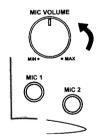


- 5. Press **PLAY PAUSE**, or **PLAY** on the tape deck you are using, to start play.
- Adjust the sound with MASTER VOLUME See "Adjusting the Sound" on Page 13.
- 7. Set each connected microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music.
- 8. Use **MIC VOLUME** to adjust the volume of both Microphone.

10. Adjust **TAPE SPEED** (if you are playing a tape). See "Adjusting the Sound on Page 13.

**Note:** With a regular (non-karaoke) prerecorded cassette tape, you cannot adjust the volume of the prerecorded original singer's voice in relation to the music.

- 11. When you finish, press **STOP** on the CD/CD+G. Then press **OPEN/CLOSE** to open the compartment door and remove the CD.
- 12. To stop a tape, press **STOP/EJECT** on the deck. Press **STOP/EJECT** again to open the cassette compartment door and remove the tape.
- 13. Set each microphone's **ON/OFF** switch to **OFF**, then press **POWER** to turn off the system.



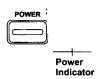
9. Adjust **ECHO** for the desired reverberation and pitch. See "Adjusting the Sound" on Page 14.

# THROUGH ANOTHER AUDIO COMPONENT

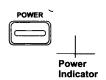
If you connected another audio component, so you can hear your voice through another component, Turn on the audio component, and be sure to turn off the component when you finish.

### TURNING THE SYSTEM ON/OFF

To turn on the system, press POWER The POWER indicator turns light.



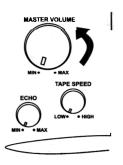
To turn off the system, press POWER The POWER indicator off.



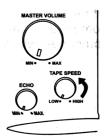
#### **ADJUSTING THE SOUND**

Use these controls to get the system's sound just right.

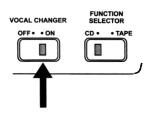
MASTER VOLUME - Control the volume from the system's speaker by truing the MASTER VOLUME toward MIN or MAX.



TAPE SPEED - To slow down or speed up the pace of the music as you sing along, turn TAPE SPEED toward LOW or HIGH. For normal tape speed, leave it set to the middle position.

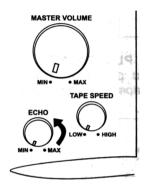


VOCAL CHANGER - While your play a karaoke audio cassette tape or CD-G disc, you can use VOCAL CHANGER to replace the prerecorded voice with your voice. When you stop singing into the microphone, the prerecorded singer's voice returns. To turn on voice control, turn VOCAL CHANGER to ON.



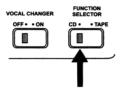
To turn off the voice control when you finish using it, turn **VOCAL CHANGER** to **OFF**.

ECHO - You can adjust ECHO to add an echo effect to your voice while you sing. Turn ECHO toward MIN or MAX for the desired effect.

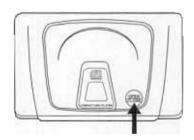


#### PLAYING A CD/CD+G

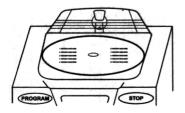
- 1. Press **POWER** to turn on the system. The POWER indicator turns on.
- 2. Set **FUNCTION SELECTOR** to **CD/CDG**.



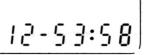
3. Press **OPEN/CLOSE** to open the CD/CD+G compartment.



4. Place a CD/CD+G in the compartment tray over the center hub, label side up.



5. Press **OPEN/CLOSE** again to close the CD/CD+G's total number of tracks and total playing time.



6. Press **PLAY/PAUSE**. The CD/CD+G begins to play from Track 1 and the track's elapsed play time appears.



7. Adjust the sound with the controls explained in "Adjusting the Sound" on Page 13.

**Note:** To sing along see "Singing Along/Quick Start" on Page 10.

8. The system automatically stops play at the end of the CD/CD+G's last track. To stop it sooner press **STOP**. The CD/CD+G's total number of tracks and playing time appear.

#### Notes:

To temporarily stop play, press PLAY/PAUSE., and the track number appear and the elapsed time stops and flashes. To resume play, press PLAY/PAUSE again.

During playback, if the system is subject to a sudden shock or jolt, the speed of rotation might change, or some noise might be produced. This is not a malfunction. Repeatedly press **SEARCH** to search backward to the beginning of the desired track.

If the CD/CD+G is stopped or paused, repeatedly press **SEARCH** until the system displays the number of the track you want to play and press **PLAY/PAUSE**. The CD/CD+G player starts playing the selected track.

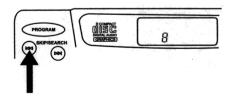
### SPECIAL CD/CD+G PLAYER FEATURES

#### **Automatic Search**

The automatic search feature (CD only) lets you quickly locate the beginning of any track on a CD, including the track currently playing,. You can use automatic search when a CD is playing or stopped.

If a CD/CD+G is playing:

Press **SEARCH** once to skip back to the beginning of the current track.



#### PROGRAMMED PLAY

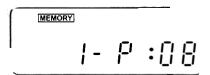
You can program the CD/CD+G player during normal or karaoke mode to play up to 20 tracks in any order you choose, and you can program the same track to play more than once.

Programming and Playing a Sequence of Tracks.

- 1. Repeatedly press **STOP** until the system displays the total number of tracks and the total playing time.
- 2. Press PROGRAM.



**MEMORY** appear at the top of the display along with the track number also appears.



**Note**: **MEMORY** remains on the top left corner of the display until you erase the programmed sequence.

3. Press **SEARCH** ( **◄** ) or ( **▶** ) to select the desired track.

4. Press **PROGRAM** to store the selected track.

8 - 38:48

5. Repeat Steps 3 and 4 to program up to 20 tracks.

**Note**: You cannot store more than 20-tracks. If you try to program a 21st track, the system does not store it.

- 6. Press **PLAY/PAUSE** to play the programmed tracks. The first track number appears on the display with the elapsed time of the track in play.
- 7. Programmed play automatically stops at the end of the last programmed track. To stop the CD/CD+G's total number of tracks and playing time appear.

### Reviewing/Replacing a Programmed Sequence

While play is stopped, repeatedly press **PROGRAM** to review the programmed sequence.

To replace a programmed track, press PROGRAM until the position number of the track you want to replace appears. Then repeat Steps 3 and 4 to select and store the new track.

### Erasing a Programmed Sequence

You can do any of the following to erase a programmed sequence:

Press **OPEN/CLOSE** before or after programmed play.

Press POWER. The POWER indicator off.

#### CD/CD+G CARE TIPS

Although a CD/CD+G is very durable, you should handle it with care. We recommend the following precautions:

 Keep the CD/CD+G in its protective case or sleeve when you are not playing it.

Keep the CD/CD+G clean. Your local store sells a suitable CD cleaner kit.

Do not write on either side of the CD/CD+G, particularly the non-label side.

Do not store CD/CD+Gs in hightemperature, high-humidity locations. They might warp.

Keep CD/CD+Gs dry. A water drop can act as a lens and affect the laser beam's focus.

Always handle a CD/CD+G by the edges to avoid fingerprints. Fingerprints and scratches on the CD/CD+G's scratches on the CD/CD+G's surface can prevent the laser beam from correctly reading the digital information.

If a CD/CD+G skips during play, it might be scratched. Your local store sells a Scratch'n Fix kit that might stop the skip. Also, see "Troubleshooting" on Page 26.

#### **CASSETTE DECK OPERATION**

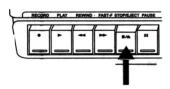
You can play a cassette tape in cassette deck, and you can record CD to TAPE.

LOADING A TAPE

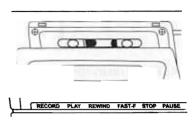
1. Take up any slack in the tape by turning the cassette's hub with a pencil or your finger. If you do not remove excess slack, the tape might become tangled in the record/playback mechanism. Avoid touching the tape.



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



edge facing down, the side you want to play or record on facing out, and the full reel to the left.



4. Close the compartment door.

#### **PLAYING A TAPE**

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

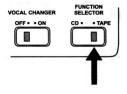
#### **Normal Play**

Follow these steps to play a cassette tape.

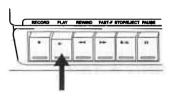
- 1. Load a cassette tape in tape deck.
- 2. Press **POWER** (if necessary) to turn on the system. The **POWER** indicator turns on.

3. Load the cassette tape with its open

#### 3. Set FUNCTION SELECTOR to TAPE.



4. Press PLAY on the deck.



- 5. Adjust the sound with the controls explained in "Adjusting the Sound" on Page 13.
- 6. Press **STOP/EJECT** to stop the tape. Press **STOP/EJECT** again to open the cassette compartment, then remove the cassette tape.

Turn the tape over and press **PLAY** to play the other side.

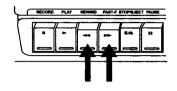
#### Notes:

To temporarily stop play, press **PAUSE**. Press **PAUSE** again to resume play.



To rapidly wind the tape forward or

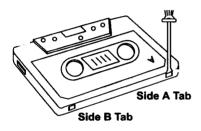
backward, press FAST-F or REWIND. Press STOP/EJECT when you reach the desired section



#### **TAPE CARE TIPS**

### Preventing Accidental Erasure

Cassette tapes have two eraseprotection 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 that was 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 by setting FUNCTION SELECTOR to TAPE and recording.

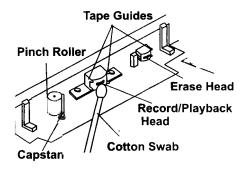
You can quickly erase both sides of a cassette tape using a bulk tape eraser.

### 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. After every 20 hours of tape player operation, use a cassette deck cleaning kit or follow these steps to clean the tape-handling parts.

- 1. Disconnect the AC 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 heads, pinch rollers, capstans, tape guides, and erase heads.



5. When you finish cleaning, press **STOP/EJECT** 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, fastforward the tape from the beginning to the end of one side, them completely rewind it. Then loosen the tpe 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.

#### USING OPTIONAL COMPONENTS

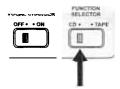
Warning: To protect your hearing and prevent damage to the karaoke system, an audio source and/or and audio component, always set their volume controls to the lowest settings before turning themon.

6. To turn off the system, press **POWER**The **POWER** indicator lights turn off
Then turn off the audio component.

#### LISTENING THROUGH ANOTHER AUDIO COMPONENT

If you connected an audio component (such as PA system) follow these steps to listen to the karaoke system's sound through that component.

1. Set FUNCTION SELECTOR to CD / TAPE.



- 2. Press **POWER** to turn on the system The **POWER** indicator turns on
- 3. Turn on the audio component.
- 4. Play a cassette, CD, or CD+G in the karaoke system.
- 5. Adjust the sound with the controls explained in "Adjusting the Sound" on Page 13.

#### RECORDING A CASSETTE TAPE

You can become a recording star! The system lets you record your voice on a blank or reusable tape as record from the CD.

#### **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.

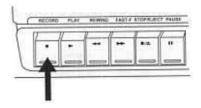
Before recording, be sure the tape you are using has its erase-proection tabs in place. See "Preventing Accidental Erasure" on Page 22.

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 a CD/CD+G.

- 1. Load a blank tape, or one that you want to record over, into tape deck, with the side you want to record on facing out, and the full reel to the left.
- 2. Follow Steps 1-10 in "Singing with a CD/CD+G or Cassette Tape" on Page 10-11.
- 3. Press **RECORD** to begin recording. **RECORD** and **PLAY** both lock down.



Note: Press PAUSE to temporarily stop recording. Press PAUSE again to resume recording.

4. Press STOP/EJECT to stop recording. RECORD and PLAY release

#### **TROUBLESHOOTING**

If you have problems operating your CD/DualCassette Karaoke System, try these suggestions. If you still have problems, contact your local store for assistance.

ea, wa <b>Problem</b> eggs	Possible Cause	Solution (
The karaoke system does not work.	No Power	Make sure the power cord is properly plugged into an AC outlet.
A CD is loaded, But the CD/CD+G player	The CD/CD+G is loaded upside-down.	Reload the CD/CD+G, label side up.
does not start.	The CD/CD+G is dirty Or defective.	Clean the CD/CD+G and Reload it, or try a different CD/CD+G.
The CD/CD+G Sound Skips.	The CD/CD+G is dirty or defective	Clean the CD/CD+G and reload it, or try a different CD/CD+G.
	Moisture has con- densed on the pickup lens.	Unplug the system and wait 1 hour for the moisture to evaporate.

Customer Service 1-800-919-3647

#### CARE AND MAINTENANCE

You CD/Dual Cassette Karaoke System is an example of superior design and craftsmanship. The following suggestions will help you care for your karaoke system so you can enjoy it for years.



Keep the karaoke 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 cases and can cause the karaoke system's to work improperly.



Wipe the karaoke system with a damp cloth occasionally to keep it ooking 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 might invalidate its warranty.

# THE FCC WANTS YOU TO KNOW

This music system complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules. These limits provide reasonable protection against radio and TV interference in a residential area. However, your system might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

recrient or relocate the receiving antenna

increase the distance between the system and the radio or TV

 Use outlets on different electrical circuits for the system and the radio or TV

Consult your local store if the problem still exists.

You must use shielded interface cables with this system.

#### **SPECIFICATIONS**

Power Output (at 10% THD)

Track System 4 Track, Two Channel Stereo
Tape Speed 1.875 ips
Record System DC Bias
Erasing System Magnet
Wow and Flutter (WRMS) Less Than 0.35%
Record/Play Frequency Response (at +/- 3 dB)

2 Watts per channel

Signal To Noise 40-60 dB

Dynamic Range More Than 80 dB

Speaker 4-Inch mono speaker (4 Ohms)

Microphone (Monaural) Impedance 600 Ohm

Power Source AC 120 V, 60 Hz, 20 W

Dimensions (HWD) 10 5/8, 9 3/8, 18 1/2 Inches (270 x 240 x 465 mm)

Weight 20.5 lbs (9.5 Kg)

Included Accessories Microphone, RCA Plug Cable, CD+G Karaoke Disc

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



#### MEMCORP Inc.

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