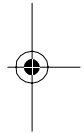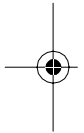Cat. No. 13-1292
OWNER'S MANUAL
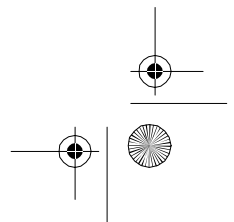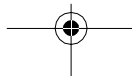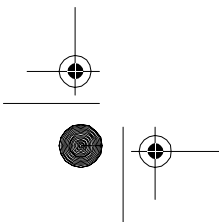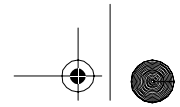
Please read before using this equipment.

SYSTEM 739

Mini Stereo Component System

OPTIMUS®

FEATURES

Your Optimus System 739 Mini Stereo Component System includes an AM/FM tuner, a cassette player, a CD player, and matching speakers. It delivers great sound, and because of its small size, it is perfect for a bedroom, the kitchen, or even the office. You can listen to your favorite CDs, and the cassette deck lets you record from a CD or the radio.

Its features include:

Automatic Skip Music System — lets you quickly find any track on a CD.

Programmed Play — lets you program up to 21 tracks on a CD to play in any order you choose.

Repeat Play — repeats the current track, the entire CD, or a programmed sequence.

5- or 3-Inch CD Compatible æ lets you play 5- or 3-inch CDs.

Auto-Stop — automatically stops the cassette tape when it reaches the end.

Fast-Forward and Rewind — let you quickly find a section on a cassette tape.

E-Bass — provides richer, fuller bass sound.

Automatic Level Control — automatically adjusts the recording level.

Note: CDs that can be played on this player have this mark on them:

Note: Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of the copyright laws of many countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to use an audio recording device to duplicate musical recordings for noncommercial (personal) use.

Read this manual carefully. It will help you get the most enjoyment from your system.

We suggest you write your music system's serial number here. The number is on the back of the system.
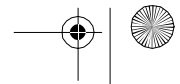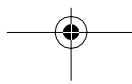
Serial Number: _____

FCC INFORMATION

This 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 or 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:

- Reorient 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.

Contact your local RadioShack store if the problem still exists.

Warning: This system 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.

.

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

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICE-ABLE PARTS INSIDE. REFER SERVIC-ING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.
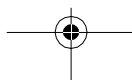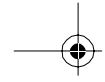
This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

3

CONTENTS

PREPARATION

Note: Complete all other connections before connecting your music system to a standard AC outlet.

CONNECTING THE SPEAKERS

1. Press the red and black terminal tabs marked **R** on the back of the system, then insert the right speaker's solid red wire into the red (**+**) terminal and its black/red striped wire into the black (**–**) terminal. Then release the tabs to close the terminals.

2. Repeat Step 1 to connect the left speaker's wires to the terminals marked **L**.

CONNECTING AN EXTERNAL ANTENNA

The system has two antennas. The AM antenna is built-in and the power cord acts as the FM antenna. For improved reception, you can attach an external FM or VHF antenna (not supplied) to the 75-ohm or 300-ohm terminals on the back of the music system. Follow the instructions supplied with the antenna to connect it.

Note: If you have an outside VHF TV antenna, you can use a 300-ohm signal splitter to connect your music system and TV set to the same antenna. Your local RadioShack store sells antennas and connectors that enable you to make this connection.

CONNECTING TO POWER

After you connect the speakers and an external antenna (if desired), plug the music system's power cord into a standard AC outlet.

Caution: The supplied AC 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 HEADPHONES

You can use headphones (not sup-
plied) to listen in privacy. Insert the
headphones' $1/8$-inch plug into the
PHONES jack on the front of the
system.

Notes:

- Your local RadioShack store sells
  a wide selection of headphones.

- Plugging in headphones automati-
  cally disconnects the speakers.

Listening Safely

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

- Set the volume to the lowest set-
  ting 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.
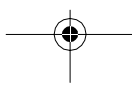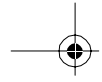
USING THE RADIO

Note: To protect your hearing, set the volume to its lowest setting before you turn on the radio.

1. Press **POWER** to turn on the system. The POWER indicator lights.

2. Set **FUNCTION** to **TUNER**.

3. Set **BAND** to **AM** or one of the **FM** settings.

4. Rotate **TUNING** to receive the desired station.

Notes:

- For the best AM reception, rotate the system.

- For the best FM reception, uncoil the power cord and extend it to its full length.

- If FM reception is strong, set **BAND** to **FM STEREO**. The FM STEREO indicator lights when you receive an FM broadcast in stereo.

- If FM reception is weak, set **BAND** to **FM MONO**. The FM STEREO indicator turns off and the sound is monaural, but the reception should improve.

5. Rotate **VOLUME** to a comfortable level.

6. Set **E-BASS** to **ON** for enhanced bass sound. Set **E-BASS** to **OFF** for normal bass sound.

7. Press **POWER** to turn off the system. The POWER indicator turns off.

7
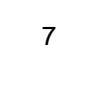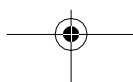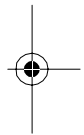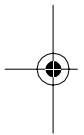
USING THE CD PLAYER

PLAYING A CD

Note: To protect your hearing, set the volume to its lowest setting before you begin playing a CD.

1. Press **POWER** to turn on the system. The POWER indicator lights.

2. Set **FUNCTION** to **CD**. **00** appears briefly, then **dISC** appears on the display.

3. Press **CLOSE/⏏ OPEN** to open the CD compartment. **OPEN** appears on the display.

4. With the label side up, carefully place the CD's hole over the center hub.

5. To close the CD compartment door, press down gently on the right corner of the CD compartment door until the door clicks shut. **00** appears on the display for a few seconds, then the display shows the total number of tracks and the CD's total playing time.

6. Press **PLAY/PAUSE** to play all the tracks in order starting with Track 1. ▶, the current track number, and the current track's elapsed time appear on the display.

Note: Press **PLAY/PAUSE** to stop the CD temporarily. **II** appears on the display. Press **PLAY/PAUSE** again to resume playing the CD.

7. Adjust **VOLUME** and **E-BASS** for the desired sound.

8. Press **STOP** to stop playing the CD before all tracks have played. The total number of tracks and the CD's total playing time appear on the display.

9. Press **CLOSE/⏏ OPEN** to open the CD compartment and remove the CD. **OPEN** appears on the display.

   Note: Do not remove the CD until after it stops turning.

10. Close the CD compartment. **00**, then **dISC** appears on the display.
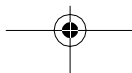
11. When you finish listening, press **POWER** to turn off the system. The POWER indicator turns off.

AUTOMATIC SKIP MUSIC SYSTEM

The automatic skip music system (ASMS) lets you quickly locate the beginning of any track on the CD, including the track currently playing. You can use ASMS when the CD is playing or is stopped.

If the CD is playing:

- Press **SKIP** ◀◀ to return to the beginning of the current track.

- Press **SKIP** ▶▶ to skip to the beginning of the next track.

- Repeatedly press **SKIP** ◀◀ or ▶▶ to skip backward or forward through tracks.

The selected track begins to play automatically.
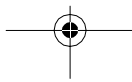
If the CD is stopped, repeatedly press **SKIP** ▶▶ or ◀◀ until the display shows the number of the track you want to play, then press **PLAY/PAUSE**. The CD player starts playing the selected track.

Note: At the beginning of a CD, you can only skip forward. At the end of a CD, you can only skip backward.

REPEAT PLAY

You can repeat the current track, the entire CD, or a programmed sequence.

To repeat the current track, press **REPEAT** once during play. **REPEAT 1** appears on the display. The CD player continuously replays the current track.

To repeat the entire CD, press **REPEAT** twice during play. **REPEAT ALL** appears on the display. The CD player continuously replays the entire CD.

If a programmed sequence is stored in memory (see "Programmed Play"), pressing **REPEAT** twice continuously replays the programmed sequence instead of the CD tracks in order.

To cancel any repeat function, press **REPEAT** until **REPEAT** disappears from the display.

PROGRAMMED PLAY

You can program up to 21 tracks on a CD to play in any sequence you choose.

Note: You cannot program tracks while a CD is playing.

1. Press **POWER** to turn on the system. The POWER indicator lights.
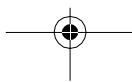
2. Press **PROGRAM** on the CD player. **00 P :01 MEMORY** appears on the display.

3. Press **SKIP** ▶▶ or ▐◀◀ to select the track you want to store in the first memory location.

4. Press **PROGRAM**. That track is stored in location **01**, and **00 P :02 MEMORY** appears on the display.

5. Repeat Steps 3 and 4 to program up to 21 tracks.

    Note: If you try to program more than 21 tracks, you will replace the first tracks with new tracks.

6. Press **PLAY/PAUSE**. The CD player plays the tracks in the programmed order. ▶, the current track number, the track's elapsed time, and **PROGRAM** appear on the display.

During play, you can press **SKIP** ▶▶ or ▐◀◀ to move through the programmed tracks. The track plays automatically and the display shows the current track.

Checking a Programmed Sequence

While a CD is stopped, repeatedly press **PROGRAM** to move through the programmed sequence.

Replacing a Track in a Programmed Sequence

While a CD is stopped, repeatedly press **PROGRAM** until the track you want to replace appears on the display. Then press **SKIP** ▶▶ or ▐◀◀ until the new track appears on the display. Press **PROGRAM**.

Clearing a Programmed Sequence

To clear the programmed sequence, press **CLOSE/⏏ OPEN**.
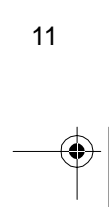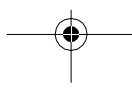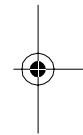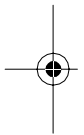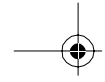
USING THE CASSETTE DECK

PLAYING A CASSETTE TAPE

Note: To protect your hearing, set the volume to its lowest setting before you begin playing a cassette tape.

1. Press **POWER** to turn on the system. The POWER indicator lights.

2. Set **FUNCTION** to **TAPE**.

3. Press **STOP/EJECT** on the tape deck to open the cassette compartment door.

4. Load the cassette in the compartment with the open end down, the full reel on the left, and the side you want to play facing you.

5. Close the cassette compartment door.

6. Press **PLAY** on the cassette deck.

The cassette tape automatically stops when it reaches the end.

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**. The cassette deck automatically stops at the end of the tape.

7. Adjust **VOLUME** and **E-BASS** for the desired sound.

8. To manually stop play, press **STOP/EJECT**. Press **STOP/EJECT** again to open the cassette compartment.
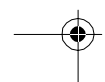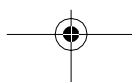
RECORDING

You can record from the CD player or radio.

Notes:

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

- Before you load a cassette tape for recording, turn the cassette's hub with your finger or a pencil to move the tape past its leader.

- The system's Automatic Level Control (ALC) automatically adjusts the recording level. **VOLUME** and **E-BASS** have no effect on recording.

Caution: If you try to record on a cassette tape that has had the erase-protection tabs removed, you cannot press **RECORD**. Do not force it, as this can damage the mechanism. See "Preventing Accidental Erasure" on Page 15.

1. Press **POWER** to turn on the system.

2. Set **FUNCTION** to **TUNER** to record from the radio or to **CD** to record from a CD.

3. Insert a tape into the cassette compartment and press **PAUSE**.

4. Press **RECORD**. The **PLAY** button automatically locks down. The RECORD indicator lights.

5. Tune the radio to the desired station or start the CD. Then release **PAUSE**. Recording begins.

   Note: You might hear a low-volume tone from the system's speakers during playback after you record from AM radio. If you hear the tone, set **E-BASS** to **ON** the next time you record. This turns on the AM beat cut circuit, which helps eliminate such tones.

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CARE AND MAINTENANCE

Your System 739 Mini Stereo Component System is an example of superior design and craftsmanship. The following suggestions will help you care for your music system so you can enjoy it for years.

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

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

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

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

Use only fresh batteries of the required size and type. Old batteries can leak chemicals that damage your music system's electronic parts.

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

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

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CD CARE TIPS

Even though a compact disc is very durable, treat the CD surface with care. We recommend the following precautions:

- Do not write on either side of the CD, particularly the non-label side (signals are read from the non-label side).

- Do not store CDs in high temperature, high-humidity locations. They might warp.

- Keep CDs dry. A water drop can act as a lens and affect the laser beam's focus.

- Always handle a CD by the edges to avoid fingerprints and always keep it in its protective case or sleeve when it is not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. If the CD gets scratched, use Scratch 'n Fix (RadioShack Cat. No. 42-127) to keep the disc from skipping.

TAPE TIPS

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, let the tape record to the end.

You can quickly erase both sides of a cassette tape using a bulk tape eraser (such as Cat. No. 44-232, not supplied), available at your local RadioShack 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.
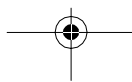
If you want to record on a tape after you have removed the erase-protection tab for that side, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the portion originally covered by the erase-protection tab.

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, tape guides, and erase head.

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

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 power cord.

2. Open the cassette compartment door.

5. When you finish cleaning, press **STOP/EJECT** and close the cassette compartment door. Then reconnect power.

Your local RadioShack store sells a wide selection of tape head-cleaning supplies.

16
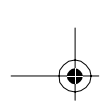
RESTORING TAPE TENSION AND SOUND QUALITY

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.
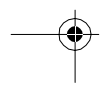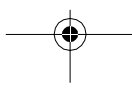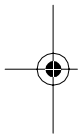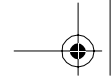
SPECIFICATIONS

Radio

Tuning Range .... AM: 530–1710 kHz
FM: 88–108 MHz

Cassette

Tape Speed .... 4.8 cm/sec

Wow and Flutter .... 0.35% WRMS

Frequency Response (at ±3 dB) .... 125 Hz–8 kHz

Recording System .... AC Bias

Erase System .... Magnet

CD Player

Number of Tracks to be Programmed .... 21 Tracks

Frequency Response (at ±3 dB) .... 80 Hz–12 kHz

Dynamic Range .... 83 dB

Signal-to-Noise (JIS-A) .... 64 dB

Harmonic Distortion (at 1 kHz) 0.8%

Separation (at 1 kHz) .... 60 dB
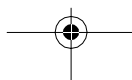
Sampling Frequency .... 44.1 kHz

Quantization Number .... 16-Bit Linear/Channel

Oversampling .... 2 Times

Pick-Up System .... 3 Beam

Optical Source .... Semiconductor Laser

Wavelength .... 790 nm

General

Power Supply .... 120V AC, 60 Hz, 10W

Speaker Size .... 4 Inches

Speaker Impedance .... 8 Ohms

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

Dimensions (HWD, Including Speakers) .... $9^1/_{16} \times 17^1/_8 \times 7^9/_{16}$ Inches
$(230 \times 435 \times 192$ mm$)$

Weight .... 5.5 lb
(2.5 kg)

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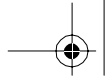
RadioShack Limited Warranty

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

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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   *10/95*
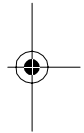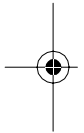
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Fort Worth, Texas 76102

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