

Cat. No. 13-1279

## OWNER'S MANUAL

Please read before using this equipment.

# SYSTEM 734

## Mini Stereo Component System

with 3-Disc Automatic CD Changer  
AM/FM Stereo  
3 Preset Equalizer Controls  
15-Watts Per Channel Amplifier  
Dual Hi-Speed Dubbing Cassette Deck  
2-Way Speaker System  
Electronic Volume Control  
Clock  
On/Off Timer  
and Remote Control

# OPTIMUS<sup>®</sup>



## FEATURES

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Your Optimus System 734 Mini Stereo Component System offers, in one attractive package, all of the versatile features that you need for excellent stereo sound and entertainment. The System 734 includes a 3-disc automatic CD changer, AM/FM stereo tuner, dual hi-speed dubbing cassette deck, speakers, and a remote control, as well as three preset equalizer controls. The built-in 15 watts-per-channel amplifier produces crisp, clear sound even at high volume.

### CD CHANGER FEATURES

**3-Disc Automatic CD Changer** — lets you load up to three CDs at once and automatically play them one after another.

**Automatic Search Music System (ASMS)** — lets you quickly locate and play any track on a CD.

**Audible Search** — helps you locate a particular section of a CD by rapidly playing it in either direction.

**Direct Selection Play** — lets you select and play any track from the loaded CDs.

**Programmable Play** — lets you program and play up to 32 tracks in any order.

**Random Play** — lets you set the System 734 to automatically play the tracks on all CDs in random order.

**Repeat Play** — lets you automatically repeat a single track, all tracks on a CD, or a programmed sequence of tracks.

**3- and 5-Inch CD Compatible** — lets you play either 3- or 5-inch CDs.

### CASSETTE DECK FEATURES

**Continuous Play** — lets you automatically play one side each of two cassette tapes, one after the other.

**Multiple Source Recording** — lets you record onto a cassette tape from the CD changer, radio, another cassette tape, or from an external audio source.

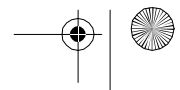
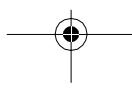
**Automatic Level Control (ALC)** — automatically adjusts the recording level.

**High Speed Dubbing** — lets you set the System 734 to record cassette tapes at one and a half times the normal speed.

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

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**Soft Cassette Tape Eject** — slowly opens the cassette compartment door when you press the eject button, so the tape does not pop out.

#### OTHER SPECIAL FEATURES

**Digital Synthesized Tuning** — eliminates tuning drift by locking the tuner on the selected frequency.

**Memory Tuning** — lets you store and easily recall up to 32 of your favorite radio stations (8 AM and 24 FM).

**Remote Control** — lets you control most of the System 734's functions from a distance.

**Easy-to-Read Display** — clearly displays your system's indicators for easy viewing in almost any lighting condition.

**Extended Bass (E-BASS)** — lets you emphasize the low-bass sounds during low-volume listening.

**Three Preset Equalizer Settings** — provide you with common sound settings for enhancing rock, pop, or classical music at the press of a button.

**Digital Clock** — gives you a digital time display even when the System 734 is turned off.



**On/Off Timer** — lets you set the System 734 to automatically turn itself on and off at preset times.

**Auxiliary Input Jacks** — let you connect an additional audio source, such as a TV, VCR, turntable, or an external CD changer or cassette deck, to your system.

**Note:** The remote control requires two AA batteries (not supplied) for power.

**Warning:** This CD changer 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.

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



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.



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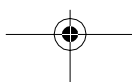
Read this manual carefully. It will help you get the most enjoyment from your System 734.

For your records, we urge you to record the serial number of your System 734 in the space below. The serial number is located on the back of the system.

Serial Number \_\_\_\_\_

**Note:** CDs that can be played on this changer 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 most 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.



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## PREPARATION

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### Important:

- Complete all connections to the System 734 before you connect it to power.
- Be sure to follow all of the installation instructions described in the enclosed "Safety Instructions."

## CONNECTING THE SPEAKERS

1. Press open the pair of terminal tabs marked **SPEAKERS/ + R -** on the back of the main System 734, then insert the right speaker's striped wire into the red (+) terminal and its solid wire into the black (-) terminal. Then release the tabs.

**Caution:** To avoid damaging your system and speakers, never let the speaker wire's bare ends touch each other.

2. Repeat Step 1 to connect the left speaker's wires to the terminal tabs marked **SPEAKERS/ - L +**.

## CONNECTING THE ANTENNAS

To connect the supplied AM and FM antennas, press open the pair of terminal tabs marked **AM** or **FM (75W)**, then insert the stripped end of the AM or FM antenna's wires into the terminals. Release the tabs to close them.

## CONNECTING AN ADDITIONAL AUDIO SOURCE

To connect an additional audio source to your System 734, such as a TV, VCR, CD changer or cassette deck, plug the audio source's left and right line level audio wires into **AUX L** (left) and **R** (right).

#### Notes:

- See "Using an Additional Audio Source" to operate an external audio source with the System 734.
- If you connect a turntable to the System 734, the turntable must have a built-in equalizer amplifier.

## SETTING THE CURRENT TIME

1. Press and hold **CLOCK** for about 2 seconds. The hour digit(s) flash.
2. To increase or decrease the hour setting, within 5 seconds press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.

## CONNECTING POWER

To connect power after making all other connections, plug your system's AC cord into a standard AC outlet. The last known time flashes on the display.

**Caution:** Your system's AC power cord has a polarized plug (one blade is wider than the other). If you have difficulty inserting the plug into the outlet, do not force it. Turn the plug over and try again.

#### Notes:

- To rapidly increase or decrease the hour setting, press and hold **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
- When changing the hour, be sure to set it to the correct AM or PM hour, so **AM** or **PM** appears on the display.



- If the hour digit stops flashing before you finish setting the hour, start again from Step 1.
3. Press **CLOCK**. The minute digits flash.
  - The time appears constantly while the System 734 is turned off. To display the time at any time while the system is turned on, simply press **CLOCK**. The current time briefly appears.

## INSTALLING BATTERIES IN THE REMOTE CONTROL

4. To increase or decrease the minutes setting, press **TUNING DOWN** or **UP**, or **PRESET/TUNING s** or **t** on the remote control.

### Notes:

- To rapidly increase or decrease the minute setting, press and hold **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
  - If the minute digits stop flashing before you finish setting the minutes, repeat Steps 1, 3, and 4.
5. Press **CLOCK** again to start the clock.

### Notes:

- When power is disconnected or interrupted then restored, the last known time flashes on the display. If this happens, reset the time.

The remote control requires two AA batteries (not supplied) for power. For the best performance and longest life, we recommend alkaline batteries, such as Radio Shack Cat. No. 23-552.

**Caution:** Always use fresh batteries of the required size and type.

1. To open the battery compartment cover, press the tab on the cover in the direction of the arrow, then lift the cover away from the compartment.



2. Insert the batteries into the compartment as indicated by the polarity symbols (+ and -) marked inside.

To connect headphones, plug the headphone's 1/4-inch plug into the **PHONES** jack on the front of the System 734.

3. Replace the cover.

**Notes:**

- If you will not be using the remote control for a month or more, remove the batteries.
- You can use the remote control up to a distance of about 20 feet (6 meters), from an angle of up to 60° in front of the System 734. If it does not operate properly within this range, replace the batteries.

**Warning:** Always dispose of old batteries promptly and properly.

**Note:** Connecting headphones automatically disconnects the System 734's speakers.

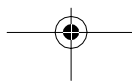
### Listening Safely

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

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

## CONNECTING HEADPHONES

To listen without disturbing others, you can connect a pair of 1/4-inch plug stereo headphones (not supplied) to the System 734. Your local Radio Shack store sells a wide selection of stereo headphones.



## BASIC OPERATION

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**Important:** To prevent hearing damage, set the volume to its minimum level before turning on the system (see "Setting the Sound").

### USING THE REMOTE CONTROL

The remote control communicates with your system through a remote sensor located on the left of the system's display. To use the remote control, be sure that the front end of it is pointing with a clear path toward the system's display, then press the desired button(s).

**Note:** Several controls on the main unit and the remote control operate the same system function. You can use either control to operate the System 734.

**Caution:** Exposing the remote control or the sensor on the main system to direct sunlight or strong lights, such as a spotlight, will reduce its operating distance and can make it inoperative.

### TURNING ON/OFF THE SYSTEM

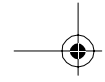
Press **POWER** to turn on the System 734. All of the system's display characters appear from left to right, then the last selected settings appear.

To turn off the system, press **POWER** again. All of the system's display characters appear at once, then disappear from right to left. Then the current time appears and remains on the display.

### SETTING THE SOUND

#### Adjusting the Volume

To increase the system's volume, turn **VOLUME** towards **UP**, or press **VOLUME** **UP** on the remote control. To decrease the volume, turn **VOLUME** towards **DOWN**, or press **VOLUME** **DOWN** on the remote control.



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Each time you increase or decrease the volume, the current volume setting, measured in decibels (dB), appears on the display. You can adjust the volume anywhere from  $-68$  dB (low) to  $0$  dB (high).

To return to normal bass sound, press it again so the button clicks and pops out.

### Changing the Preset Equalizer Settings

You can adjust the balance of the System 734's sound frequencies using one of its three preset equalizer (sound balance) settings. These settings are designed to give you the best sound for rock, pop, or classical musical selections.

**Important:** To prevent hearing damage, set the volume to its minimum level before playing the radio, a CD or cassette tape, or an external audio source.

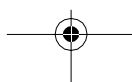
**Note:** To turn off the sound temporarily, press **MUTE**. A red indicator appears next to **MUTE** on the display. To resume listening, press **MUTE** again so the indicator turns off.

Each time you turn it on, the System 734 automatically uses the last selected equalizer setting. To change the setting, press **ROCK**, **POP**, or **CLASSIC**, or repeatedly press **EQ PRESET** on the remote control. The selected button lights up, and  $\leftarrow$  appears next to **ROCK**, **POP**, or **CLASSIC** on the display.

### Using Extended Bass (E-Bass)

To enhance the System 734's bass sound, press **E-BASS** on the main system. The button clicks and locks in.

To cancel the selected setting, press the selected button or press **EQ PRESET** on the remote control until the selected button turns off on the main system.



## SETTING THE ON/OFF TIMER

You can set the System 734 to automatically turn itself on, play the last selected radio station, CD, or cassette tape, then turn itself off again.

### Notes:

- To rapidly increase the hour or minutes settings when setting the on/off times, simply press and hold **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
  - When changing the hour setting, be sure to set it to the correct AM or PM hour.
  - If the hour or minute digits stop flashing before you finish setting them, start again from Step 1.
1. Press and hold **TIMER SET** on the remote control until **ON** and the last set on-time appear on the display. The hour digits flash.
  2. To increase or decrease the on-time hour setting, within 5 seconds press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
  3. Press **TIMER SET** again. The minute digits flash.
  4. To increase or decrease the on-time minutes setting, within 5 seconds press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
  5. Press **TIMER SET** again. **OFF** and the last set off-time appear on the display. The hour digit(s) flash.

6. To increase or decrease the off-time hour setting, within 5 seconds press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
7. Press **TIMER SET** again. The minute digits flash.
8. To increase or decrease the off-time minutes setting, within 5 seconds press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control.
9. Press **TIMER SET** again. The last set volume level appears on the display. Adjust **VOLUME** to set the volume to the desired level.
10. Press **TIMER SET** again to end programming and turn on the timer. A clock symbol appears on the display to indicate that the timer is on.
11. Select the desired radio station or CD you want the System 734 to play when it turns itself on (see "Radio Operation" or "CD Changer Operation").
12. Select the desired **E-BASS** and equalizer settings.
13. Press **POWER** to turn off the System 734. The current time and the clock symbol appear dimly lit on the display.

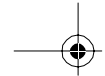
**Note:** If you selected a cassette tape, be sure to press **PLAY** and **PAUSE** on the appropriate deck (TAPE 1 or 2) (see "Cassette Deck Operation").

12. Select the desired **E-BASS** and equalizer settings.
13. Press **POWER** to turn off the System 734. The current time and the clock symbol appear dimly lit on the display.

**Notes:**

- If you selected a cassette tape, be sure to release **PAUSE** on the selected deck after you turn off the system.
- Until you turn off the timer, the System 734 automatically turns itself on every day at the preset time and plays the last selected radio station, cassette tape, or CD. If no CD is loaded in the last selected CD position, the system automatically selects the next highest numbered CD.

**Note:** To turn the timer on or off at any time after setting it, press **TIMER ON/OFF** on the remote control so the clock symbol appears or disappears.



## RADIO OPERATION

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### LISTENING TO THE RADIO

1. Repeatedly press **FUNCTION** until **↔** appears next to **TUNER** on the display.

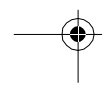
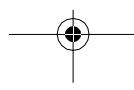
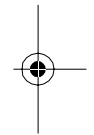
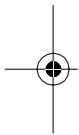
To rapidly scan for a station, press and hold **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control, until **AUTO** appears on the display (about 2 seconds). When you release it, the tuner automatically stops at the next strong station.

2. Repeatedly press **BAND** to select AM or FM. As you press it, **AM** or **FM** and the last selected station appear on the display.

#### Notes:

3. Repeatedly press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control, to tune to the desired station. As you press it, the frequency number changes on the display.

- If **P-** followed by a number appears on the display, the system tunes in only preset (memory) stations (see "Using Memory Tuning").
- To listen to FM broadcasts in stereo, press **FM MONO**. If the broadcast is being received in stereo, **STEREO** appears on the display.



- To improve reception for weak FM stereo stations, press **FM MONO**. so **MONO** (monaural) appears on the display. The sound is no longer in stereo, but reception should improve. To return to stereo sound, press **FM MONO**.
  - For the best FM reception, fully extend the FM antenna.
  - For the best AM reception, turn the AM antenna until reception improves.
4. Adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.

**Note:** The first time you press **MEMORY** after connecting power, the System 734 automatically selects memory position 01. Each time you press it after that, it selects the next available position. To select the next higher or lower memory position, after you press **MEMORY**, press **TUNING UP** or **DOWN** (or **PRESET/TUNING s** or **t** on the remote control).

3. Within 5 seconds, press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control, to tune to the desired station.

## USING MEMORY TUNING

You can store and easily recall up to 32 of your favorite AM and FM radio stations (8 AM and 24 FM) in the System 734's memory.

### Storing a Station in Memory

1. Press **BAND** to select AM or FM.
2. Press **MEMORY**. **MEMORY** and **P-01** (memory position 01) flash on the display.

**Note:** If **MEMORY** disappears before you tune to the desired station, repeat Step 2 then try again.

4. Press **MEMORY** again to store the station in the selected memory position.
5. Repeat Steps 2-4 to store up to 24 FM stations or 8 AM stations in the selected band.





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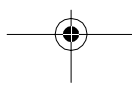
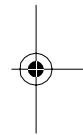
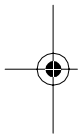
### Notes:

- You cannot clear a station from memory, but you can store a new one in its place.
- When power is disconnected or interrupted for 24 hours or more, the System 734 loses all of its memory settings.

### Recalling a Stored Station

1. Press **BAND** to select the desired band.
2. If **P-** followed by a number does not appear on the display, press **PRESET**. **P-** appears on the display along with the last selected preset station.
3. Repeatedly press **TUNING UP** or **DOWN**, or **PRESET/TUNING s** or **t** on the remote control, until the desired station appears on the display.

**Note:** To tune in stations that are not stored in memory, press **PRESET** so **P-** disappears from the display, then tune in the desired station.





## CD CHANGER OPERATION

The System 734 lets you load up to three CDs at once and gives you many options to control the order in which the CDs play.

- Carefully place a CD in slot number 1 with the label facing up.

### LOADING AND PLAYING A CD

- Repeatedly press **FUNCTION** until **↔** appears next to **CD** on the display. **DISC** appears.

- To load a CD in each of the other slots (2 and 3), repeatedly press **DISC SKIP** to rotate the CD tray until the desired slot appears.

- Press **OPEN/CLOSE**. **OPEN** appears on the display, then the CD changer drawer opens.

- Press **OPEN/CLOSE**. The CD changer drawer closes, **DISC 1** and **1 0:00** appear, then the total number of tracks and playing time appear.

- To play the CD loaded in slot 1 (Disc 1), press **PLAY/PAUSE**.

**Caution:** Do not try to force the CD drawer open or closed. You might damage its loading mechanism.



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To play a different CD, repeatedly press **DISC SKIP** until the desired disc number appears on the display.

- To display the current track's remaining play time during play, press **DISPLAY** on the remote control once. Press it again to display the entire CD's remaining play time. Press it a third time to return to the elapsed play time.

The selected **dISC** number flashes on the CD changer, **1** (the track number) and **→** appear, then the CD begins to play and its elapsed play time appears on the display.

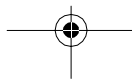
- The System 734 displays the selected CD's total playing time and number of tracks at all times before and after play. To briefly display this information during play, press **TIME** on the remote control.

**Notes:**

- To skip over, search, or repeat tracks, see "Special CD Changer Features."
- To briefly stop play, press **PLAY/PAUSE**. **■** appears on the display.

To resume play, press **PLAY/PAUSE** again. **■** disappears.

7. Adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.
8. The System 734 automatically stops play at the end of the highest numbered CD loaded in the system.





To stop the CD changer at any time during play, press **STOP**. The selected CD's total number of tracks and playing time appear.

## SPECIAL CD CHANGER FEATURES

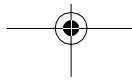
### Automatic Search Music System (ASMS)

The automatic search music system lets you skip forward or backward through the tracks on all loaded CDs.

### Loading/Unloading CDs During Play

The System 734's rotating 3-disc CD changer lets you load and unload up to two CDs while a third CD is playing.

1. During play, press **OPEN/CLOSE**. The CD changer drawer opens, and the currently selected CD continues playing.
  2. Unload and/or load CDs in the exposed disc slots.
  3. Press **OPEN/CLOSE** again to close the CD changer drawer.
- To skip to the beginning of the next track during play, press and release **SKIP/SEARCH >>|**.
  - To return to the beginning of the current track during play, press and release **SKIP/SEARCH |<<**.
  - To skip forward or backward through additional tracks, repeatedly press and release **SKIP/SEARCH >>|** or **|<<** until the desired track number appears on the display.
  - To skip forward or backward 10 tracks at a time, press **10+** then **SKIP/SEARCH >>|** or **|<<** until the desired track number appears on the display.





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## Audible Search

To search forward or backward during play, press and hold down **SKIP/SEARCH >>|** or **|<<**. The CD rapidly advances, and you hear the tracks at a high speed and low volume. Release **SKIP/SEARCH >>|** or **|<<** to resume normal play.

## Random Play

The System 734 lets you set the CD changer to play the tracks on all CDs in random order.

1. With at least one CD in the CD changer and no CD playing, press **RANDOM** on the remote control. **RANDOM**, **↺**, and the first randomly selected disc and track number appear on the display. Then the track begins to play, and its elapsed play time appears.

2. To briefly stop random play, press **PLAY/PAUSE**. **||** appears on the display. To resume play, press **PLAY/PAUSE** again. **||** disappears.
3. The System 734 continuously plays tracks randomly. To stop the CD changer at any time during random play, press **STOP**. **RANDOM**, **↺**, and the CD's elapsed play time disappear, then the selected CDs total number of tracks and playing time appear.

**Note:** To cancel random play and resume normal play without stopping play, simply press **RANDOM** or **OPEN/CLOSE**. **RANDOM** disappears from the display, and the CD changer resumes normal play.

**Note:** To skip to another randomly selected track, press and release **SEARCH >>|** or **|<<**.





## INTRO Scanning

The **INTRO** (introduction) scanning feature lets you review the first 10 seconds of each track on all loaded CDs. To use the **INTRO** scanning feature, simply press **INTRO SCAN**. **INTRO** appears on the display, and the CD changer plays the first 10 seconds of each track on all loaded CDs, beginning with the first track on the lowest numbered CD.

**Note:** You can search forward or backward during **INTRO** scanning.

To cancel **INTRO** scanning and stop play, press **STOP**. The CD stops and **INTRO** disappears from the display.

To cancel **INTRO** scanning without stopping play, press **INTRO SCAN** again. **INTRO** disappears, and the CD changer resumes normal play from the beginning of the current track.

## Repeat Play

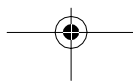
The System 734 lets you continuously repeat a single track, all tracks on a loaded CD, or a programmed sequence of tracks (see "Programmed Play").

To continuously repeat a single track, press **REPEAT** once before or during play so **REPEAT1** appears on the display.

To continuously repeat all tracks on the selected CD, press **REPEAT** twice before or during play so **REPEAT** appears on the display.

To continuously repeat a programmed sequence, first program the tracks you want to play, then press **REPEAT** twice before or during play so **REPEAT** appears on the display along with **PROGRAM**.

To cancel repeat play before, during, or after play, press **REPEAT** so **REPEAT** or **REPEAT1** disappears from the display. If repeat is cancelled during play, the CD changer resumes normal play.





## Cue

To select a track before you begin play or after pressing **PLAY/PAUSE** to pause the current CD, press **SKIP/SEARCH >>|** or **|<<** until the desired track number appears on the display. Then press **PLAY/PAUSE** to play the track.

2. Press **DISC SKIP** so **dISC** and the desired CD number appear along with **PROGRAM**.

## PROGRAMMED PLAY

You can program the CD changer to play up to 32 tracks in any order you choose, and you can program the same CD or track to play more than once.

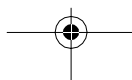
3. Press **SKIP/SEARCH >>|** or **|<<** to select the desired track.

## Storing/Playing a Programmed Sequence

1. With at least one CD in the CD changer and no CD playing, press **PROGRAM**. **PROGRAM** and **P-01** (memory position number 01) appear on the display.

### Notes:

- To skip forward or backward 10 tracks at a time, press **10+** then **SKIP/SEARCH >>|** or **|<<** until the desired track number appears on the display.
- If you store a track number that does not exist on the selected CD, the CD changer simply skips to the next stored track during programmed play.



4. To store the selected track, press **PROGRAM** again. The memory position number automatically increases by 1 to indicate it is ready to store the next track. For example, after you press **PROGRAM** to store the track in **P-01**, **P-02** automatically appears.

5. Repeat Steps 2-4 to store up to 32 tracks.

**Note:** If you try to store more than 32 tracks, the CD changer automatically begins reviewing the tracks already stored, beginning with the first track (see "Reviewing a Programmed Sequence"). **C-** (check) appears on the display, followed by memory position number (**01**, for example). This information remains on the display until you begin programmed play.

6. Press **PLAY/PAUSE** to play the programmed sequence. The selected disc number flashes on the CD changer, the first programmed track number and **↔** appear, then the programmed track begins to play and its elapsed play time appears on the display.

#### Notes:

- To briefly stop programmed play, press **PLAY/PAUSE**. **■** appears on the display. To resume programmed play, press **PLAY/PAUSE** again. **■** disappears.
  - Pressing **DISC SKIP** has no effect during programmed play.
7. Programmed play automatically stops at the end of the last programmed track. To stop the CD changer at any time during programmed play, press **STOP**. **↔** and the CD's elapsed play time disappear, then the total number of tracks and playing time appear.

#### Notes:

- Repeat Step 6 to play the programmed sequence again.
- To replace a programmed track, press **PROGRAM** until the memory position number of the track you want to replace appears on the display. Then repeat Steps 2-4 to select and store the new track in its place.



- To resume regular or random play after storing a programmed sequence, you must first erase the programmed sequence (see "Erasing a Programmed Sequence").

### Reviewing a Programmed Sequence

To review a programmed sequence, while play is stopped, repeatedly press **PROGRAM**. As you press it, the **DISC** and track number, and **C-** (check) followed by the memory position number of each stored track appears.

### Erasing a Programmed Sequence

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

- Press **STOP** before or after programmed play.
- Press **OPEN/CLOSE** before, during, or after programmed play.
- Press **POWER** before, during, or after programmed play.

**PROGRAM** disappears from the display.

**Note:** This review information stays on the display until you press **PLAY/PAUSE** to play the sequence, or until you erase the sequence (see "Erasing a Programmed Sequence").



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## CD AND CD CHANGER CARE TIPS

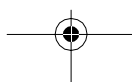
Although a CD is very durable, you should handle it with care. We recommend the following precautions.

- Keep the CD in its protective case or sleeve when you are not playing it.
- Keep the CD clean. Your local Radio Shack store sells a suitable CD cleaner kit.
- Keep the CD dry. A drop of moisture can act as a lens and affect the laser beam's focus. If it gets wet, wipe the CD with a soft, dry cloth before playing it.
- Do not write on either side of a CD, especially the non-label side.
- Handle the CD by its edges to avoid fingerprints and surface scratches, which can prevent the laser from accurately reading the CD. If the CD gets scratched, use Scratch 'n' Fix (Radio Shack Cat. No. 42-127) to keep the CD from skipping during play.
- Do not store CDs in high-temperature, high-humidity locations.

If the System 734 is subjected to a sudden shock or jolt during play, the CD's rotation speed might suddenly change, and the music might be briefly interrupted. This is not a malfunction.

### Cautions:

- To avoid damaging the CD changer, do not place anything but a CD in the CD drawer.
- Remove any loaded CDs from the CD changer before moving the System 734 to prevent damaging the CDs.
- Moving the CD changer suddenly from a cold place to a warmer one can cause moisture to form on the pickup lens and disrupt operation. If this happens, wait about one hour before playing a CD.



## CASSETTE DECK OPERATION

The System 734 has a dual cassette deck system which lets you automatically play one side of two cassette tapes consecutively, record from the CD changer, record one cassette tape onto another, and more.

### Notes:

- The remote control does not operate the System 734's cassette deck.
- The System 734's Automatic Level Control (ALC) feature automatically adjusts the recording level. The **VOLUME**, **E-BASS**, and **ROCK, POP, or CLASSIC** settings have no effect on the recording.
- Tape quality greatly affects the quality of the recording. 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 easily tangle in the cassette mechanism. For low-noise, wide-range recordings, use normal-bias tape.
- Before you load a cassette tape for recording, turn the cassette's hub with your finger or a pencil to take up any slack and move the tape past its leader. (Avoid touching the tape with your fingers.)
- Before recording, be sure the cassette tape's erase-protection tabs are in place. See "Preventing Accidental Erasure."

## LOADING A TAPE

1. Press **STOP/EJECT** on the desired tape deck (TAPE 1 or TAPE 2) to open the cassette compartment door.

**Note:** TAPE 1 both plays back and records. TAPE 2 only plays prerecorded cassette tapes.

2. Insert the cassette tape with the exposed tape edge facing down, the side you want to play facing you, and the full reel to the left.

3. Close the door.

## PLAYING A TAPE

1. Repeatedly press **FUNCTION** until  $\rightarrow$  appears next to **TAPE** on the display.

2. Press **PLAY**. The tape begins to play.

4. The System 734 automatically stops the tape when it reaches the end. To stop the tape at any time during playback, press **STOP/EJECT**.

#### Notes:

- To briefly stop the tape during playback, press **PAUSE**. The button locks and the tape stops. Press **PAUSE** again to continue playback.

#### Consecutive Play

You can set the System 734 to automatically play one side of the cassette tape in TAPE 2, then play one side of the cassette in TAPE 1.

- To rapidly fast-forward or rewind a cassette tape in either deck while the tape is stopped, press **FAST-F** (fast-forward) or **REWIND**. The button locks and the tape fast-forwards or rewinds.

The System 734 automatically stops the tape when it reaches the end. To stop the tape at any time during fast-forwarding or rewinding, press **STOP/EJECT**.

3. Adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.

1. Load the first cassette tape you want to play into TAPE 2, and the other into TAPE 1. Be sure the side of the tape you want to play is facing out on each deck, with the full reel to the left.

2. Press **PLAY** on TAPE 2. The tape in TAPE 2 begins to play.

3. Press **PAUSE** then **PLAY** on TAPE 1. Both buttons lock.

When the tape in TAPE 2 reaches the end, the tape in TAPE 1 automatically begins to play.

**Note:** To briefly stop the tape in either deck during playback, press **PAUSE** on the desired deck. The button locks and the tape stops. Press **PAUSE** again to continue playback.

4. At the end of the tape in TAPE 1, the system automatically stops the tape. To stop playback on either deck at any time, press **STOP/EJECT** on that deck. **PLAY** releases.

**Note:** If you press **STOP/EJECT** on TAPE 2 during play, the tape in TAPE 1 automatically begins to play.

## RECORDING A CASSETTE TAPE

The System 734 lets you record onto a cassette tape from the CD changer, radio, or another cassette tape.

**Note:** You can also record from an additional audio source (see "Recording from an Additional Audio Source").

**Caution:** Never try to force down **RECORD** after you remove an erase-protection tab from a cassette tape (see "Preventing Accidental Erasure"). You might damage the recording mechanism.

## Recording from a CD

Follow these steps to record from a CD onto a cassette tape.

1. Repeatedly press **FUNCTION** until  $\rightarrow$  appears next to **CD** on the display, then load the CDs you want to record into the CD changer.
2. Load a blank cassette tape, or one you want to record over, into TAPE 1.
3. To record the tracks from all loaded CDs in order, press **PLAY/PAUSE** on the CD changer twice. ■■ appears on the display, and the CD changer pauses on disc 1, track 1.

**Note:** To record only selected tracks or change the sequence in which the tracks are recorded, you must first program a sequence (see "Programmed Play"), then press **PLAY/PAUSE** twice.

4. Press **RECORD** on TAPE 1 and **PLAY/PAUSE** on the CD changer at the same time to begin recording. ■■ disappears, ⇐ appears along with the CD's elapsed play time, **PLAY** locks down along with **RECORD**, and the tape begins recording.

6. The System 734 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 1.

#### Notes:

- You cannot change the function while **RECORD** is pressed down
  - To briefly stop the tape while recording, press **PAUSE** on TAPE 1. The button locks and the tape stops. Press **PAUSE** again to resume recording.
  - To briefly stop the CD while recording, press **PLAY/PAUSE** on the CD changer. ■■ appears on the display. To resume play, press **PLAY/PAUSE**.
5. To listen to the CD during recording, adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.

To stop the CD during or after recording, press **STOP** on the CD changer.

**Note:** The System 734 automatically stops the CD changer when it reaches the end of all loaded CDs or the programmed sequence. If the tape is still recording, press **STOP/EJECT** on TAPE 1 to stop the tape.

### Copying Cassette Tapes

The System 734 lets you dub (copy) one cassette tape to another, one side at a time, using its dual cassette decks (TAPE 1 and TAPE 2).

1. Repeatedly press **FUNCTION** until ⇐ appears next to **TAPE** on the display.
2. Load a blank cassette tape, or one you want to record over, into TAPE 1.
3. Load the tape you want to record from into TAPE 2.

4. Press **RECORD**, then **PAUSE** on TAPE 1. **PLAY** automatically locks down.

5. To record at one and a half times the normal speed, press **HIGH SPEED**. **HI-DUBB** appears on the display. To set it back to normal speed, press **HIGH SPEED** again. **HI-DUBB** disappears.

6. Within 5 seconds, press **PLAY** on TAPE 2. The tape in TAPE 2 begins to play, **PAUSE** automatically releases on TAPE 1, and TAPE 1 begins to record.

**Note:** If you are unable to press **PLAY** within 5 seconds, **HI-DUBB** disappears. If this happens, repeat Step 5 then try again.

7. To listen to the tape in TAPE 2 during recording, adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.

**Note:** If you use **HIGH SPEED** during recording, you hear the sound at one and a half times the normal speed.

8. To briefly stop the tape in either deck while recording, press **PAUSE** on that deck. The button locks and the tape stops. Press **PAUSE** again to resume recording.

9. The System 734 automatically stops the tape in each deck when that tape reaches the end of the side.

To stop the tapes in both decks at any time during recording, press **STOP/EJECT** on both decks. **PLAY** releases on TAPE 2, **RECORD** and **PLAY** release on TAPE 1, and recording stops.

## Recording from the Radio

The System 734 lets you record onto a cassette tape from any AM or FM radio station. You can also set it to automatically turn on at a preset time and begin recording from the radio.

1. Press **BAND** to select AM or FM, then tune to the desired station.
2. Load a blank cassette tape, or one you want to record over, into TAPE 1.
3. Press **RECORD** and **PAUSE** on TAPE 1. **PLAY** automatically locks down.

4. Release **PAUSE** on TAPE 1 to begin recording.

5. To listen to the radio during recording, adjust **VOLUME**, or **VOLUME s/t** on the remote control, and select the desired **E-BASS** and equalizer settings.
6. The System 734 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 1. **RECORD** and **PLAY** release, and recording stops.

To set your System 734 to automatically begin recording from the radio at a preset time, first set and turn on the on/off timer (see "Setting the On/Off Timer"). Then follow Steps 1-3 above. Next, press **POWER** to turn off the system, then release pause on TAPE 1. At the preset time, your system automatically turns itself on and immediately begins recording from the radio.

**Note:** To briefly stop the tape while recording, press **PAUSE** on TAPE 1. The button locks and the tape stops. Press **PAUSE** again to resume recording.



## TAPE TIPS

### Erasing a Cassette Tape

To record over a cassette tape, simply record over the previous recording. To erase the entire cassette tape, select a function with no audio (such as **CD** with no CD playing) and let the tape record to the end.

**Note:** The tape you are recording over must be a normal bias-type tape.

To quickly erase a tape, you might prefer to use a bulk tape eraser (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, break off that side's plastic tab with a screwdriver.

If you break off a tab and decide later that you want to record on that side of the tape, carefully cover that side's tab hole with a piece of adhesive tape.

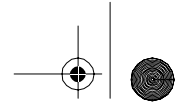
**Caution:** Removing the erase-protection tab does not prevent a bulk eraser from erasing a cassette tape.

### 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 re-winding 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.



## USING AN ADDITIONAL AUDIO SOURCE

If you connected an additional audio source, such as a TV, VCR, turntable, or an external CD changer or cassette deck (see "Connecting an Additional Audio Source"), you can use your System 734 to listen to or record from that source.

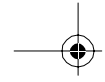
### LISTENING TO AN ADDITIONAL AUDIO SOURCE

1. Set **VOLUME**, or press **VOLUME**  $\uparrow$  on the remote control, to its lowest setting, and be sure that the audio source's volume control (if any) is also set to its lowest level.
2. Repeatedly press **FUNCTION** until  $\rightarrow$  appears next to **AUX** on the display. The current time appears on the display.
3. Operate the audio source according to its owner's manual.
4. Adjust **VOLUME**, or **VOLUME** s/t on the remote control, and the audio source's volume control (if any) to the desired level.

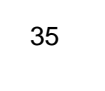
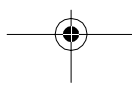
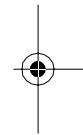
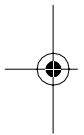
### RECORDING FROM AN ADDITIONAL AUDIO SOURCE

Follow these steps to record onto a cassette tape from an additional audio source.

1. Set **VOLUME**, or press **VOLUME**  $\downarrow$  on the remote control, to its lowest setting, and be sure that the audio source's volume control (if any) is also set to its lowest level.
2. Repeatedly press **FUNCTION** until  $\rightarrow$  appears next to **AUX** on the display. The current time appears.
3. Load a blank cassette tape, or one you want to record over, into TAPE 1.
4. Press **RECORD** and **PAUSE** on TAPE 1. **PLAY** automatically locks down.
5. Begin play on the additional audio source as instructed in its owner's manual.
6. Release **PAUSE** on TAPE 1 to begin recording.
7. To listen to the audio source's sound while recording, adjust **VOLUME**, or **VOLUME** s/t on the remote control, and the audio source's volume control (if any) to the desired level.



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8. To briefly stop the tape while recording, press **PAUSE** on TAPE 1. The button locks and the tape stops. Press **PAUSE** again to resume recording.
  9. The System 734 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 1. **RECORD** and **PLAY** release, and recording stops.
  10. Stop play on the additional audio source as instructed in its owner's manual.



## TROUBLESHOOTING

If your system is not working as it should, these suggestions might help you eliminate the problem. If the system still does not operate normally, take it to your local Radio Shack store for assistance.

Symptom	Possible Cause	Suggestion
Power does not turn on when <b>POWER</b> is pressed	Power problem.	Check the AC power cord and AC outlet.
No sound.	<b>VOLUME DOWN/UP</b> set too low.	Adjust <b>VOLUME</b> toward <b>UP</b> (or press <b>VOLUME</b> s on the remote control).
No sound when function is selected.	Wrong function selected or speakers connected incorrectly.  External audio source.	Select another function or check speaker connections.  Start the external audio source.
CD Changer does not work.	CD loaded upside down.	Load CD correctly.
Sound from CD skips.	CD is dirty or damaged.	Clean CD and reload it or try a new CD.
Poor sound quality during cassette tape playback.	Cassette tape heads, capstands, or pinch rollers are dirty.	Clean cassette decks (see "Cleaning the Tape Handling Parts").
Record does not work.	Erase-protection tabs are removed from the cassette tape.	Put a piece of tape over the holes where the erase-protection tabs were.
Output sound is not stereo.	The station you are listening to is an AM station or you are not receiving a stereo signal from the FM station.  <b>FM MONO.</b> is not set to <b>STEREO.</b>	Try another FM station you can receive in stereo.  Set FM mode to <b>STEREO.</b>

## CARE AND MAINTENANCE

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Your Optimus System 734 Mini Stereo Component System is an example of superior design and craftsmanship. The following suggestions will help you care for the System 734 so you can enjoy it for years.



Keep the System 734 dry. If it gets wet, wipe it dry immediately. Liquids contain minerals that can corrode the electronic circuits



Handle the System 734 gently and carefully. Dropping it can damage the circuit boards and can cause the System 734 to work improperly.



Use and store the System 734 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the System 734 away from dust and dirt, which can cause premature wear of parts.



Wipe the System 734 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the System 734.

Modifying or tampering with the System 734's internal components can cause a malfunction and might invalidate your System 734's warranty. If your System 734 is not performing as it should, take it to your local Radio Shack store for assistance.

## THE FCC WANTS YOU TO KNOW

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

Consult your local Radio Shack store if the problem still exists.

You must use shielded interface cables with this stereo system.

## 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 for each

deck after every 20 hours of tape player operation.

1. Disconnect power.
2. Open the cassette compartment door on each deck.
3. Press **PLAY** on each deck to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean each deck's record or play head, pinch roller, capstan, and erase head (TAPE 1 only).

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

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

## SPECIFICATIONS

### CD CHANGER

Frequency Response .....	20 – 20000 Hz
Signal-to-Noise Ratio.....	85 dB (1 kHz, 0 dB)
Harmonic Distortion .....	0.05% (1 kHz, 0 dB)
Separation .....	70 dB
Wow & Flutter .....	Undetectable
CD Used Diameter .....	5-inch (120 mm) and 3-inch (80 mm)
Signal Format .....	D-A Conversion, 6-Bit Linear/Channel Transmission
Bit Rate.....	4.3218
MB/Second Sampling Frequency .....	44.1 kHz Pick-Up
System.....	Non-Contact Optical
Optical Source .....	Semiconductor Laser
Wavelength.....	780 nm
Rotation Speed .....	Approximately 200 – 500 rpm (CLV)
Error Correction .....	Cross Interleave
Reed Solomon Code Number of Channels .....	2

### AMPLIFIER

Audio output power * .....	15 Watts/Channel (minimum RMS power)
*Output at no more than 1.0% total harmonic distortion into 6 ohms, over the audio spectrum, 65 to 15,000 Hz.	
Frequency Response .....	35 – 20000 Hz
Input Sensitivity .....	400 mV
Signal-to-Noise Ratio (A-WTD) .....	72 dB
Harmonic Distortion .....	0.06% (8 W, 1 kHz, 6 ohms)

### TUNER (FM)

Frequency Range .....	87.9 – 107.9 MHz
Usable Sensitivity (IHF) .....	1.4 mV (75 ohms), 14.3 dBf, 50 dB
S/N Sensitivity (Stereo) .....	3 dBf
IF Rejection .....	75 dB
Image Rejection.....	40 dB
Capture Ratio .....	1.0 dB
AM Suppression .....	40 dB
Signal-to-Noise Ratio	
Mono .....	76 dB
Stereo.....	70 dB

**Distortion:**

Mono ..... 0.3%, 1 kHz  
 Stereo ..... 0.5%, 1 kHz  
 Alternate Channel Selectivity ..... 50 dB ( $\pm 400$  kHz)  
 Frequency Response ..... 30 to 15 kHz (+0.5 dB, -3 dB)  
 Stereo Separation ..... (1 kHz) 33 dB  
 Antenna ..... 75 ohms (unbalanced)

**TUNER (AM)**

Frequency Range ..... 530 – 1710 kHz  
 Sensitivity (20 dB S/N) ..... 350 mV/m  
 IF Rejection (at 1.000 kHz) ..... 50 dB  
 Image Rejection (at 1.000 kHz) ..... 35 dB  
 Signal-to-Noise Ratio ..... 53 dB (100 dB input)  
 Selectivity ..... 22 dB (9 kHz)  
 Total Harmonic Distortion ..... 0.8%  
 Antenna ..... Loop Antenna

**DUAL CASSETTE DECK**

Speed Accuracy .....  $\pm 3.5\%$   
 Tape Speed (Normal) .....  $1\frac{7}{8}$  ips (4.75 cm/s)  
 Frequency Response ..... 50 – 12000 Hz  
 Distortion ..... 1.5%  
 Crosstalk (at 1 kHz) ..... 60 dB  
 Track Format ..... 4 Tracks, 2 Channels  
 Recording System ..... AC Bias  
 Erasure System ..... Magnet  
 Erase Ratio (at 400 Hz) ..... 65 dB  
 Motor DC ..... Servo

**SPEAKERS**

Impedance ..... 6  $\Omega$   
 Woofer .....  $5\frac{1}{4}$  Inches (130 mm) diameter  
 Cone Tweeter .....  $2\frac{1}{4}$  Inches (60 mm) diameter  
 Cone Power Handling ..... 15 watts (RMS)  
 Maximum Power ..... 30 watts  
 Output Sound Pressure Level ..... 87 dB/W/m  
 Dimensions (HWD) .....  $12\frac{13}{32} \times 7\frac{9}{32} \times 7\frac{19}{32}$  Inches  
 (315  $\times$  185  $\times$  193 mm)



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Cabinet Type .....2-way  
Weight .....6 lbs. 10 Oz. (3 kg)

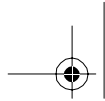
### INFRARED REMOTE CONTROL

Controls ..... 27 Keys  
Power Requirements .....3 V DC (Two AA Batteries)  
(Cat. No. 23-552)

### GENERAL

Power Requirements ..... 120 V AC, 60 Hz  
Power Consumption (Total) ..... 75 W  
Dimensions (Main Unit) (HWD) .....  $12\frac{3}{8} \times 10\frac{5}{8} \times 13$  Inches  
(315 × 270 × 330 mm)  
Weight (Main Unit) .....22 lbs, 1 oz (10 kg)  
Accessories .....FM Antenna, AM Loop Antenna, Remote Control

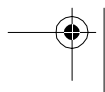
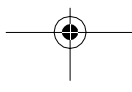
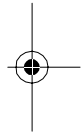
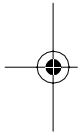
Specifications are typical; individual units might vary. Specifications and design are subject to change and improvement without notice.

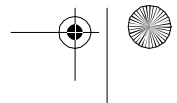
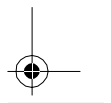
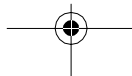
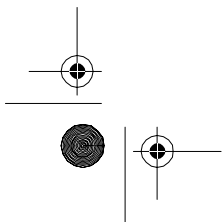
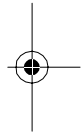
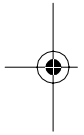
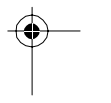
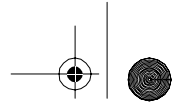
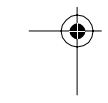


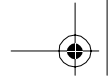
# NOTES

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### RADIO SHACK LIMITED WARRANTY

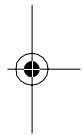
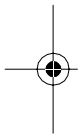
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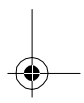
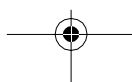
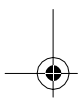
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