



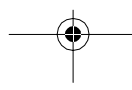
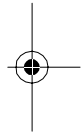
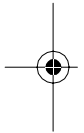
Cat. No. 14-543

OWNER'S MANUAL

Please read before using this equipment.

CD-3319

Portable Triple Play Compact Disc Player and AM/FM Stereo Cassette Recorder





FEATURES

Your Radio Shack CD-3319 combines a compact disc player, an AM/FM radio, and a cassette deck system into an all-in-one portable package. You can use the CD-3319 indoors or out, at work or play. You can listen to the radio, pre-recorded cassette tapes or compact discs, and even make your own recordings.

CD PLAYER FEATURES

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

Programmable Play — lets you program and play up to 16 tracks in any sequence.

Repeat Play — repeatedly plays a single track, the entire CD, or a programmed sequence of tracks.

Shuffle Play — randomly selects and plays tracks from the loaded CD.

Intro Scan — helps you locate a desired track by playing the first 10 seconds of each track on a CD.

Pause — lets you temporarily stop playback of a CD and start it again from the same point.

CASSETTE DECK FEATURES

Automatic Stop — automatically stops the tape when it reaches the end.

Soft Cassette Tape Eject — softly opens the cassette compartment cover when you press the eject button so the cassette does not pop out.

One-Touch Recording — lets you press only one button to start recording.

Multiple-Source Recording — lets you record from the CD player, the radio, or an auxiliary audio source.

Synchronous Recording System — simplifies recording from the CD player to a cassette tape.

OTHER SPECIAL FEATURES

Tone Control and Speaker Balance — let you customize the sound to suit your personal preference.

Extended Bass (E-BASS) — lets you hear powerful, heavy bass while listening to the radio, a CD, or a cassette.

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

For your records, we recommend you record the serial number of the CD-3319 in the space provided. The serial number is in the battery compartment.

Serial Number _____

The CD player in this stereo system is made and tested to meet exacting safety standards. It meets UL and FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services. With proper care, this CD player should give you years of trouble-free service.

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





Note: Most material on compact discs and pre-recorded 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.

Warnings:

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

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-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. | | |



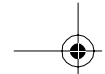
This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



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

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PREPARATION



Important:

- Complete all connections to the CD-3319 before you connect it to power.
- Be sure to follow all of the installation instructions described in the enclosed "Important Safety Instructions."

Place the speakers so the distance between them is the same as the distance between the listening area and a point halfway between the speakers. If the distance between the speakers is greater, you can improve the stereo effect by angling the speakers in toward the listening area.

CONNECTING THE SPEAKERS

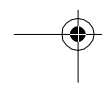
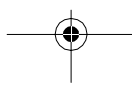
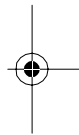
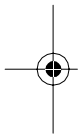
Attaching the Speakers

To attach the supplied speakers to the CD-3319, slide each speaker down into the grooves on each side of the CD-3319 until it clicks.

To detach each speaker, press and hold the speaker's locking latch away from the CD-3319, then lift the speaker straight up.

To increase the bass effect, place the speakers in corners, against the wall, or directly on the floor. To decrease the bass effect, move the speakers slightly away from the wall, or raise them 6 or more inches off the floor. You can purchase speaker stands at your local Radio Shack store.

Note: If you want to connect speakers other than the supplied ones, use speakers with an impedance of 4 ohms.





Connecting the Speaker Wires

Follow these steps to connect the speaker wires to the CD-3319.

1. Unwind as much speaker wire as you need from the back of each speaker, then slide the wire through one of the slots on the back of each speaker to hold it in place.

2. Insert the left speaker's plug into **SPEAKER L** on the back of the CD-3319, then insert the right plug into **SPEAKER R**.

Note: Be sure to match the positive side of the plug to the positive side of the terminal, and the negative side to the negative.

CONNECTING AN AUXILIARY AUDIO SOURCE

To connect an auxiliary audio source to your CD-3319, such as a TV or VCR, plug the audio source's left and right line level audio wires into **AUX L** (left) and **AUX R** (right).

Set **FUNCTION** to **AUX** to select and listen to an auxiliary audio source.

CONNECTING POWER

You can power the CD-3319 from any of the following:

- AC power using the supplied AC power cord
- Nine D batteries (not supplied)
- Vehicle battery power using a DC-to-AC inverter (not supplied)

Using AC Power

To power the CD-3319 from standard AC power, plug the supplied AC power cord into the **AC IN~** jack, then plug the other end 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.

Note: The CD-3319 automatically disconnects internal batteries when you connect the AC power cord.

Using Batteries

You can power the CD-3319 from nine D batteries (not supplied). For the best results, we recommend alkaline batteries (such as Radio Shack Cat. No. 23-550).

1. Press the two latches on the battery compartment cover and pull out the cover to remove it.
2. Place the nine D batteries in the compartment as indicated by the polarity symbols (+ and -) marked next to the battery compartment.

Cautions:

- Use only fresh batteries of the required size and type.
- Never mix old with new batteries.
- If you do not plan to use the batteries in the CD-3319 for a month or more, remove the batteries to protect the CD-3319 from possible battery leakage.

3. Replace the battery compartment cover.

Cautions:

- If the CD-3319 does not operate properly or if the sound weakens or distorts, replace the batteries.
- Always dispose of the old batteries promptly and properly.
- Never leave dead, old, or weak batteries in the CD-3319. They can leak chemicals and corrode or damage electronic circuits.

Using Your Vehicle's Battery

You can power the CD-3319 from your vehicle's battery using a DC-to-AC inverter (Cat. No. 22-132, not supplied).

Cautions:

- To protect your vehicle's electrical system, always plug the AC power cord into **AC IN~** and the inverter before you plug the inverter into the cigarette lighter socket. Always turn off the inverter and unplug it from the cigarette lighter socket before you unplug the AC power cord from **AC IN~** and the inverter.
- The recommended inverter supplies 120 volts AC power and delivers at least 315 milliamps. Using an inverter that does not

meet these specifications could damage the CD-3319.

1. Plug the supplied power cord into the **AC IN~** jack on the back of the CD-3319.
2. Plug the AC power cord into the power inverter's AC jack.
3. Plug the power inverter into your vehicle's cigarette lighter socket.
4. Turn on the power inverter.

Note: If the CD-3319 does not operate properly when you use the inverter, unplug the inverter from the cigarette lighter socket and clean the socket to remove ashes and debris. Also, check the AC power cord for proper connection. If it still does not operate properly, check the fuse in the inverter.



USING HEADPHONES

For private listening, you can connect a pair of stereo headphones (not supplied) with a $\frac{1}{8}$ -inch plug. Your local Radio Shack store carries a wide selection of stereo headphones.

To connect the headphones, insert the headphones' $\frac{1}{8}$ -inch plug into the **PHONES** jack.

Note: Connecting headphones automatically disconnects the built-in speaker.

Listening Safely

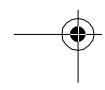
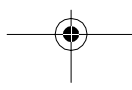
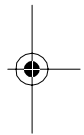
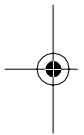
To protect your hearing, follow these guidelines when you use headphones.

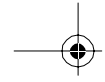
- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over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

Traffic Safety

Do not wear headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and is illegal in some areas.

Even though some headphones are designed to let you hear some outside sounds when listening at normal volume levels, they still present a traffic hazard.





RADIO OPERATION

Warning: To protect your hearing, set **VOLUME** to its lowest setting before you turn on the radio.

Follow these steps to use the radio.

1. Set **FUNCTION** to **RADIO** to turn on the radio. The **POWER** indicator lights.

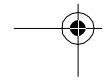
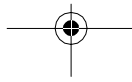
2. Set **BAND** to **FM** or **AM**.

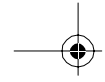
3. Adjust **TUNING** to the desired station.

4. Set **MODE/BEAT-CUT** to **STEREO (0 or 1)** for stereo sound on FM stations.

Notes:

- For the best AM reception, rotate the CD-3319 to position the built-in AM antenna.
 - For the best FM reception, fully extend the telescoping antenna and swivel it to the position that produces the best reception.
 - The FM **STEREO** indicator lights when you receive an FM signal in stereo.
 - If FM stereo reception is noisy, set **MODE/BEAT-CUT** to **MONO**. The sound is no longer in stereo, but reception should improve.
5. Adjust **VOLUME**, **TONE** and **BALANCE** to the desired levels.
6. Press **E-BASS** to enhance the bass sounds while playing the radio. Press the button again to turn the extended bass system off.
7. Set **FUNCTION** to **TAPE** to turn off the radio.





CD PLAYER OPERATION



LOADING A CD

1. Set **FUNCTION** to **CD**. The **POWER** indicator lights, and **dISC** appears in the display.

2. Press **▲ PUSH OPEN** on the CD compartment cover. The CD compartment opens.

3. Place a CD in the compartment with the label facing up.

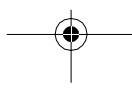
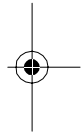
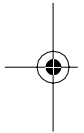
4. Close the compartment door. Within a few seconds, the display shows the CD's total number of tracks and total playing time.

PLAYING A CD

1. After loading a CD, press **PLAY/PAUSE ▶■**. The CD player plays the CD starting with the first track. The display shows \triangleright , the current track number, and the elapsed time.

Notes:

- To repeat, skip over, or search for tracks, see "Special CD Player Features."
 - A sudden shock or jolt while a CD is playing might suddenly change the CD's rotation speed or cause the CD player to skip the track it is playing and, as a result, mute or distort the sound momentarily. This is not a malfunction.
2. Adjust **VOLUME**, **TONE** and **BALANCE** to the desired levels.





Warning: Your CD-3319 CD player has a wide dynamic range. If you turn the volume too high during the low volume sections of a program, you might damage your hearing during sudden loud sections.

3. Press **E-BASS** to enhance the bass sounds while playing the CD. Press the button again to turn it off.

Note: If you do not stop the CD player, it plays to the end of the last track and automatically stops. When the CD player is stopped, \triangleright disappears from the display and the total number of tracks appears.

6. To remove the CD, press \blacktriangle **PUSH OPEN** after the CD stops turning.

Caution: Remove a loaded CD before you move the CD-3319 to prevent possible damage to the CD or the CD player.

PROGRAMMING TRACKS

Storing/Playing a Programmed Sequence

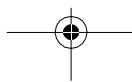
You can program the CD player to play up to 16 tracks in any order you choose.

4. To temporarily stop play, press **PLAY/PAUSE** \blacktriangleright \blacksquare . \blacksquare appears on the display. Press **PLAY/PAUSE** \blacktriangleright \blacksquare again to resume play.

5. To completely stop play, press **STOP/CLEAR** \blacksquare .

1. If a CD is playing, press **STOP/CLEAR** \blacksquare to stop it. The CD's total number of tracks and total playing time appear on the display.

2. Press **PROGRAM**. PROGRAM and **00 P- 01** (the first memory position) appear on the display.





3. Select the track you want by pressing **SKIP/SEARCH** or . The track number you selected appears on the display.
4. Press **PROGRAM**. The selected track is stored, and the next program number appears on the display.
5. Repeat Steps 3 and 4 to store up to 16 tracks.

Notes:

- You can store the same track more than once.
- When 16 tracks are programmed, **C -01** and the first track's number appear on the display.

6. To complete programming and play the programmed sequence, press **PLAY/PAUSE** . The CD player begins playing the first track of the programmed sequence. The display shows the play indicator, the current track number, and the current track's elapsed playing time.

Notes:

- Programming is not completed until you press **PLAY/PAUSE** .
- To repeat, skip over, or search for tracks, see "Special CD Player Features."

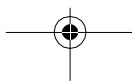
Checking a Programmed Sequence

To check the programmed sequence, while the CD is stopped, repeatedly press **PROGRAM**. The display shows each stored track number.

Erasing a Programmed Sequence

Any of the following will erase a programmed sequence:

- Press **STOP/CLEAR** until **PROGRAM** clears from the display and the CD's total number of tracks and playing time appear.
- Press **STOP/CLEAR** . Then press **PUSH OPEN** after the CD stops turning.
- Set **FUNCTION** to another position.
- Disconnect the power source.



SPECIAL CD PLAYER FEATURES

Automatic Search Music System (ASMS)

You can use ASMS to search through the CD to select a desired track or programmed sequence.

rest of the last track and begins playing the first track.

To select a track while the CD player is stopped or during pause, press **SKIP/SEARCH** **▶▶** or **◀◀** until the desired track number appears on the display. Then press **PLAY/PAUSE** **▶||** to play the track.

Audible Search

While playing any track on a CD, you can press and hold down **SKIP/SEARCH** **▶▶** or **◀◀** to search through the track to find a desired section. You hear the music at a higher speed and lower volume while the CD player searches.

To select a track during play:

- Press and release **SKIP/SEARCH** **◀◀** to return to the beginning of the current track.
- Press and release **SKIP/SEARCH** **▶▶** to skip forward to the beginning of the next track.
- Repeatedly press **SKIP/SEARCH** **◀◀** or **▶▶** to skip backward or forward through additional tracks.

Notes:

- If you repeatedly press **SKIP/SEARCH** **◀◀** while the first track is playing, the last track begins playing.
- If you repeatedly press **SKIP/SEARCH** **▶▶** while the last track is playing, the CD-3319 skips the

- Press and hold down **SKIP/SEARCH** **▶▶** for forward search.
- Press and hold down **SKIP/SEARCH** **◀◀** for reverse search.

To resume normal play, release **SKIP/SEARCH** **▶▶** or **◀◀**.



Repeat Play

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

- To repeat a single track, press **MODE** before or during play. **REPEAT** appears on the display and the CD player repeatedly plays the selected track.
- To repeat the entire CD, press **MODE** twice before or during play. **REPEAT ALL** appears on the display, and the CD player repeatedly plays the entire CD.
- To repeat a programmed sequence, press **MODE** twice before or during programmed play. **PROGRAM** and **REPEAT ALL** appear on the display and the CD player repeatedly plays the programmed sequence.

To cancel repeat play at any time, press **MODE** until **REPEAT** or **REPEAT ALL** disappears from the display.

Intro Play

During intro play, the CD player scans through all the CD's tracks, playing the first 10 seconds of each track.

Note: Intro play does not work with a programmed sequence.

While the CD player is stopped, press **MODE** until **INTRO** appears on the display. Then press **PLAY/PAUSE** **▶||**. The CD player plays the first 10 seconds of each track.

After it plays the first 10 seconds of the last track during intro play, the CD player stops playing and the display shows the total number of tracks and the total playing time.

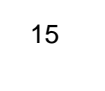
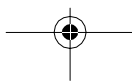
During intro play, if you want to listen to a specific track within 10 seconds after it begins playing, press **PLAY/PAUSE** **▶||** again to turn off intro play and resume normal play.

Shuffle Play

During shuffle play, the CD player plays all the tracks on a CD once, selecting them in random order.

Notes:

- None of the tracks are played more than once.
- Shuffle play does not work with a programmed sequence or repeat play.





- You must select shuffle play before playback. If you select shuffle play while a CD is playing, **SHUFFLE** appears on the display but the function does not work.

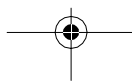
Before play, press **MODE** until **SHUFFLE** appears on the display. Then press **PLAY/PAUSE** **▶||**. The CD player selects and plays each of the tracks randomly. After all of the tracks have played once, the CD player automatically stops.

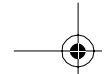
- Keep CDs dry. A water drop can act as a lens and affect the laser beam's focus.
- Always handle a CD by the edges to avoid getting fingerprints on the CD and always keep it in its protective case or sleeve when not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. To clean the CD surface, use a CD Cleaner Kit (such as Cat. No. 42-225).
- If you move the player from a cold place to a warmer one, moisture might condense on the pickup lens, preventing proper disc play. If this happens, wait 2 hours before attempting to operate it again.

CD CARE TIPS

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

- Do not place anything but a CD in the disc tray. This can damage the drive mechanism.
- 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. The CDs might warp.





CASSETTE PLAYER OPERATION



LOADING A CASSETTE TAPE

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

3. Close the cover.

PLAYING A CASSETTE TAPE

1. Press **STOP/EJECT** ■▲ to open the cassette compartment cover.

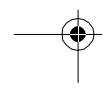
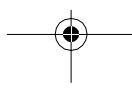
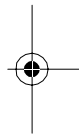
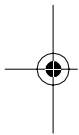
2. Insert the cassette tape into the tape guides on the compartment door, with the side you want to play facing you and the exposed tape edge facing down.



1. Set **FUNCTION** to **TAPE**.

2. Load a cassette tape.
3. Press **PLAY** ►. The **POWER** indicator lights and the tape player plays the cassette tape until it reaches the end, then it automatically stops.

Notes:

- To temporarily stop playback, press **PAUSE** ■■. Press **PAUSE** ■■ again to resume playback.





- To rapidly wind the tape forward or backward, press **FAST-F**  or **REWIND** . The cassette deck automatically stops at the end of the tape.

RECORDING ON A CASSETTE TAPE

You can record from the CD player, the radio, or an auxiliary audio source to a cassette tape.

Notes:

- Be sure the cassette player is stopped before fast-forwarding or rewinding a cassette tape.
 - Always remove and store cassette tapes when you are not using them.
4. Adjust **VOLUME**, **TONE** and **BALANCE** to the desired levels.
 5. Press **E-BASS** to turn on the extended bass system. Press the button again to turn it off.
 6. To manually stop play, press **STOP/EJECT** . The **POWER** indicator turns off. Press **STOP/EJECT**  again to open the cassette compartment and remove the tape.

- Before recording, be sure the erase-protection tabs are in place on the cassette tape you are recording onto (see "Preventing Accidental Erasure").
- 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 easily tangle. For low-noise, wide-range recordings, use normal-bias tape.
- The CD-3319's Automatic Level Control (ALC) automatically adjusts the recording level. **VOLUME**, **TONE** and **BALANCE** have no effect on recording.

Recording from a CD

1. Set **FUNCTION** to **CD** and load a CD. The **POWER** indicator lights.
2. Insert a cassette tape.

3. If you are not starting from track 1, select the desired track or program a sequence (if you do not want to record the entire CD), then press **PLAY/PAUSE** ►|| twice to pause the CD player. || appears.
4. Press **RECORD** ● on the tape deck. **RECORD** ● and **PLAY** ► lock down, the CD player automatically begins playing the first track, and the tape deck begins recording from the CD. ▷ and **SYNC** appear on the display.

Caution: If you use a cassette tape with the erase-protection tabs removed, do not force down **RECORD** ●. This can damage the record mechanism. See “Preventing Accidental Erasure.”

Note: To temporarily stop recording, press **PAUSE** ||. Press **PAUSE** || again to resume recording.

5. To stop recording, press **STOP/EJECT** ■▲. To stop the CD player, press **STOP/CLEAR** ■.

Recording from the Radio

1. Set **FUNCTION** to **RADIO**. The **POWER** indicator lights.
2. Insert a cassette tape.
3. Set **BAND** to **FM** or **AM**.
4. Adjust **TUNING** to the station you want to record.

5. Press **RECORD** ● to begin recording.

Note: You might hear a low-volume tone from the CD-3319's speakers during playback after you record an AM radio program. To insure a tone-free recording, make a test recording before you record the desired program. If you hear the tone in the test recording, set **MODE/BEAT-CUT** on the back of the CD player to whichever position gives you the best recorded sound.

6. To stop recording, press **STOP/EJECT** ■▲.

Recording from an Auxiliary Audio Source

1. Set **FUNCTION** to **AUX**. The **POWER** indicator lights.
2. Insert a cassette tape.
3. Connect an auxiliary audio source and start playing the selection you want to record.
4. Press **RECORD** ● to begin recording.
5. To stop recording, press **STOP/EJECT** ■▲.

TAPE CARE TIPS

Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each side. To protect a recording from being accidentally recorded over or erased, use a screwdriver to remove one or both of the cassette tape's erase-protection tabs.

Notes:

- If you want to record over a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole.
- Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

Erasing a Cassette Tape

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

To erase a previously recorded tape, you can either:

- Record silence by setting **FUNCTION** to **TAPE** or **CD** (with no CD loaded) and press **RECORD** ● on the tape deck.
- Use a bulk tape eraser (such as Radio Shack Cat. No. 44-232, not supplied) available at your local Radio Shack store.

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.

CARE AND MAINTENANCE

Your Radio Shack CD-3319 Portable Triple Play Compact Disc Player and AM/FM Stereo Cassette Recorder is an example of superior design and craftsmanship. The following suggestions will help you care for the CD-3319 so you can enjoy it for years.



Keep the CD-3319 dry. If it gets wet, wipe it dry immediately. Water contains minerals that can corrode electronic circuits.



Handle the CD-3319 carefully. Dropping it can damage the case and circuit boards and cause the CD-3319 to work improperly.



Use the CD-3319 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and warp or melt plastic parts.



Keep the CD-3319 away from dust and dirt, which can cause premature wear of parts.



Wipe the CD-3319 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the CD-3319.



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

Modifying or tampering with the CD-3319's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If the CD-3319 is not performing as it should, take it to your local Radio Shack store for assistance.

FCC INFORMATION

This equipment 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 equipment 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 radio or TV's receiving antenna
- Increase the distance between the CD-3319 and the radio or TV
- Use outlets on different electrical circuits for the CD-3319 and the radio or TV

Consult your local Radio Shack store or an experienced radio/TV technician if the problem still exists.

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 CD-3319. Use the following cleaning procedure after every 20 hours of tape player operation.

1. Remove the batteries and disconnect any other power source.
2. Open the cassette compartment door.
3. Press **PLAY** ► on the tape deck to expose the parts you need to clean.
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.
5. When you finish cleaning, press **STOP/EJECT** ■▲, close the cassette compartment door, and reconnect power.

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



SPECIFICATIONS

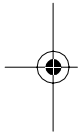


CASSETTE DECK

Tape Speed 1⁷/₈ ips (4.75 cm/sec.)
 Tape System 4 Track/Side/Stereo
 Signal to Noise Ratio43 dB
 Channel Separation35 dB
 Wow and Flutter 0.25%

CD PLAYER (Test Point at CD Output)

Type CD Player with Optical Pickup
 Channels Two Channels (Stereo)
 Frequency Response 20 Hz to 20 kHz
 Digital Filter 8 times Oversampling
 Signal to Noise Ratio80 dB

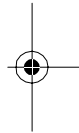


RADIO

Frequency Range
 FM 88–108 MHz
 AM 530–1710 KHz

Antennas
 FMRod
 AM Ferrite Core

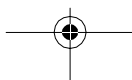
Usable Sensitivity
 FM (1 IHF Usable Sensitivity)6.2 mV
 AM (20 dB S/N Sensitivity)630 mV/m



GENERAL

Output Power (10% THD) 4 Watts/Channel DC

Speakers
 WooferDynamic, 4-Inch × 2
 Tweeter Piezo





Power SupplyAC 120 V, 60 Hz/DC 13.5 V / 9 D Batteries
Dimensions (HWD) $10\frac{7}{16} \times 21\frac{7}{8} \times 9\frac{1}{2}$ inches
(265 × 555 × 240 mm)
Weight (without batteries) 14 lbs 3 oz
6.44 Kg

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

Radio Shack Limited Warranty

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

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

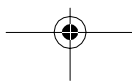
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