



Cat. No. 14-540

OWNER'S MANUAL

Please read before using this equipment.

CD-3316

PORTABLE AM/FM STEREO/ SINGLE CASSETTE DECK/ CD PLAYER



Radio Shack





FEATURES

Your Radio Shack CD-3316 Portable AM/FM Stereo/Single Cassette Deck/CD Player is an all-in-one package. It is portable so you can use it anywhere you go, indoors or out. You can listen to the radio, pre-recorded cassette tapes or compact disks, and even make your own recordings.

Multiple-Source Recording -- lets you record from the CD player or radio.

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

CD PLAYER FEATURES

Audible Search -- lets you quickly locate the desired section on a CD.

Pause -- lets you temporarily stop playback of a CD.

OTHER SPECIAL FEATURES

Tone Control -- lets you customize the sound to suit your personal preference.

Beat-Cut/FM Mode -- lets you select monaural or stereo when tuning the stereo to an FM station or select a lower noise reference when recording from an AM station.

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.

Automatic Level Control -- automatically adjusts the recording level.

Super Bass Sound (SBS) System -- lets you boost the low frequency for an enhanced, deep, soft sound.

For your records, we recommend you record the serial number of the CD-3316 in the space provided. The serial number is on the battery compartment.

Serial Number _____

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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 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.

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.

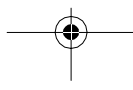
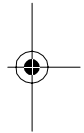
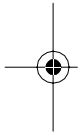


This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

----- | Warning: This CD 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. | ---



CONTENTS





POWER SOURCES



USING AC POWER

To power the CD-3316 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.

Note: The CD-3316 automatically disconnects internal batteries when you connect the AC power cord.

Cautions:

- Always dispose of the old batteries promptly and properly.
 - Never leave dead, old, or weak batteries in the CD-3316. They can leak chemicals and corrode or damage electronic circuits.
3. Place 6 D batteries in the compartment as indicated by the polarity symbols (+ and -) marked next to the battery compartment.

USING BATTERIES

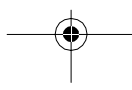
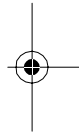
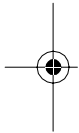
You can power the CD-3316 from 6 D batteries (not supplied). For the best results, we recommend alkaline batteries (such as Radio Shack Cat. No. 23-550). If the CD-3316 does not operate properly or if the sound weakens or distorts, replace the batteries.

1. Press the two latches on the battery compartment cover and pull out the cover in the direction of the arrows to remove it.

Cautions:

- Use only fresh batteries of the required size and type.
 - Never mix old with new batteries.
 - If you do not plan to use batteries in the CD-3316 for a month or more, remove the batteries protect the CD-3316 from possible battery leakage.
4. Replace the battery compartment cover.

2. Remove the old batteries.





USING YOUR CAR BATTERY

AC power cord for proper connection.

You can power the CD-3316 from your car battery using a DC-to-AC Inverter (such as Radio Shack Cat. No. 22-132, not supplied).

Cautions:

- Always plug the AC power cord into AC IN and the inverter before you plug the inverter into the cigarette lighter socket.
- Always unplug the inverter from the cigarette lighter socket before you unplug the AC power cord from AC IN or the inverter.

1. Plug the supplied AC power cord into the AC IN jack on the back of the CD-3316.
2. Plug the AC power cord into the power inverter's AC jack.
3. Plug the power inverter into your car's cigarette lighter socket.

Note: If the CD-3316 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



RADIO OPERATION



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

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

- The **FM STEREO** indicator lights when you receive an FM signal in stereo.

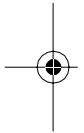
- If FM stereo reception is noisy, set **BEAT-CUT/FM-MODE** to **MONO**. The sound is no longer in stereo, but reception improves.

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

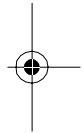
4. Adjust **VOLUME** and **TONE** to the desired levels.

5. Press **SBS** to enhance the bass sounds while playing the radio. Press the button again to turn the SBS system off.

6. Set **FUNCTION** to **RADIO OFF/TAPE** to turn off the radio.

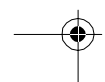
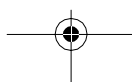


3. Adjust **TUNING** to the desired station.



Notes:

- For the best AM reception, rotate the CD-3316 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.





CD PLAYER OPERATION

LOADING A CD

1. Set **FUNCTION** to **CD**. The **POWER** indicator lights and **CD** appears in the display.
2. Press **PUSH/OPEN** on the CD compartment cover. The CD compartment cover lifts.
3. Place a CD in the compartment with the label facing up.
4. Close the compartment cover. Within a few seconds the display shows the CD's total number of tracks.

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 the play indicator and the current track number.

Notes:

- To search for sections of tracks, see "Audible Search."

- A sudden shock or jolt while a CD is playing might suddenly change the speed of the CD's rotation or cause the CD player to skip the track it is playing and, as a result, momentarily mute or distort the sound. This is not a malfunction.
2. Adjust **VOLUME** and **TONE** to the desired levels.

Warning: Your CD-3316 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.

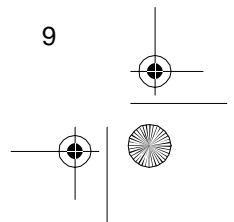
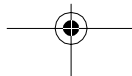
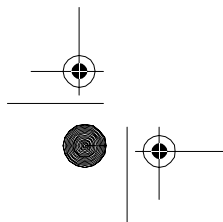
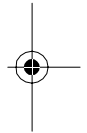
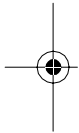
3. Press **SBS** to turn on the SBS system. Press the button again to turn it off.
4. To temporarily stop play, press **PLAY/PAUSE**. The pause indicator appears on the display. Press **PLAY/PAUSE** again to resume play.
5. To completely stop play, press **STOP/CLEAR**.

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, the play indicator





turns off and the total number of tracks appears on the display.





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

Caution: Remove a loaded CD before you move the CD-3316 to prevent possible damage to the CD or the CD player.

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.

- 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 <<.

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.
- Keep the CD dry. A water drop can act as a lens and affect the laser beam's focus.
- Always handle a CD by the edges to avoid fingerprints and always keep it in its protective case or sleeve when it is not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. To clean the CD surface, use a CD Cleaner Kit (such as Cat. No. 42-116).
- If you move the player from a very cold room to a warmer one, moisture can condense on the pickup lens, preventing proper disc play. If this happens, turn the CD player off then wait 30 minutes before attempting to operate it again.





CASSETTE PLAYER OPERATION



LOADING A CASSETTE TAPE

Note: Take up any slack in the tape by turning the 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.

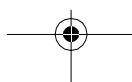
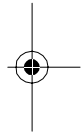
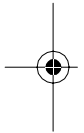
1. Press **STOP/EJECT** to open the cassette compartment cover.
2. Insert the cassette tape with the side you want to play or record on facing you, and the exposed tape edge facing down.
3. Close the cover.

Notes:

- To temporarily stop playback, press **PAUSE**. Press **PAUSE** again to resume.
 - To rapidly wind the tape forward or backward, press **F-FWD** or **REW**. The cassette deck automatically stops at the end of the tape.
 - Always remove and store cassette tapes when you are not using them.
4. Adjust **VOLUME** and **TONE** to the desired levels.
 5. Press **SBS** to turn on the SBS 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.

PLAYING A CASSETTE TAPE

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.



RECORDING A CASSETTE TAPE

You can record from the CD player or radio.

Notes:

- Before recording, be sure the erase-protection tabs are in place on the cassette tape you are recording onto.
- Before you load a cassette tape for recording, turn the cassette's hub with your finger or a pencil to move the tape past its leader.
- Tape quality greatly affects the quality of the recording. We recommend regular length (60-minute or 90-minute) cassette tapes. Long-play cassette tapes such as C-120s are not recommended. For low-noise, wide-range recordings, use normal-bias tape.
- The CD-3316's Automatic Level Control (ALC) automatically adjusts the recording level. VOLUME and TONE 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. Press **PLAY/PAUSE** twice to set the CD player to pause. The pause indicator appears on the display.
4. Press **RECORD** on the tape deck. **RECORD** and **PLAY** lock down together, the CD player automatically begins playing the first track, and the tape deck begins recording from the CD. **SYNC** appears 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 mechanism. See "Preventing Accidental Erasure."

Notes:

- To temporarily stop recording, press **PAUSE**. Press **PAUSE** again to resume recording.
- To stop recording, press **STOP/EJECT**. To stop the CD player, press **STOP**.

Recording from the Radio

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



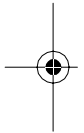
5. Press **RECORD** to begin recording.

Note: You might hear a low-volume tone from the CD-3316'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 **BEAT-CUT** on the back of the CD player to either of the other positions.

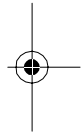
driver to remove one or both of the cassette tape's erase-protection tabs.

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. Be sure you cover only the hole originally covered by the erase-protection tab.



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



TAPE CARE TIPS

Preventing Accidental Erasure

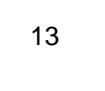
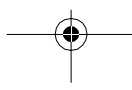
Cassette tapes have two erase-protection tabs - one for each side. To protect a recording from being accidentally recorded over or erased, use a screw-

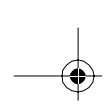
- Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

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:





- Remove all input sources so you can record silence over all or part of the tape.
- Use a bulk tape eraser (such as Cat. No. 44-232, not supplied), available at your local Radio Shack store.

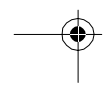
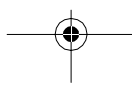
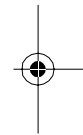
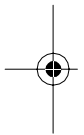


Restoring Tape Tension and Sound Quality

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 re-wind 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 HEADPHONES



For private listening, you can use a pair of stereo headphones (not supplied) with an 1/8-inch plug. Your local Radio Shack store carries a wide selection of stereo headphones.

- Once you set the volume, do not increase it. Over a period of time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

To connect the headphones, insert the headphones' 1/8-inch plug into the **PHONES** jack.

TRAFFIC SAFETY

Then put on the headphones and adjust **VOLUME** to a comfortable listening level.

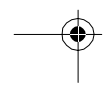
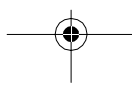
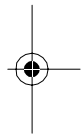
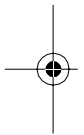
Do not wear headphones while operating a motor vehicle or riding a bicycle. Even though some headphones are designed to let you hear some outside sounds when listening at normal volume levels, they still present a traffic hazard and are illegal in some areas.

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

LISTENING SAFELY

Do not listen at extremely high volume levels. Extended, high-volume listening can lead to permanent hearing loss. Follow these guidelines to protect your hearing, especially when you use headphones.

- Always start by setting the volume to the lowest level possible before you begin listening. Put the headphones on, then gradually increase the volume as necessary.



CARE AND MAINTENANCE

CARING FOR YOUR CD-3316

Your Radio Shack CD-3316 Portable AM/FM Stereo/Single Cassette Deck/CD Player is an example of superior design and craftsmanship. The following suggestions will help you care for the CD-3316 so you can enjoy it for years.



Keep the CD-3316 dry. If it gets wet, wipe it dry immediately. Water contains minerals that can corrode electronic circuits.



Use the CD-3316 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and warp or melt the case.



Handle the CD-3316 carefully. Dropping it can damage the case and circuit boards and cause the product to work improperly.



Keep the CD-3316 away from dust and dirt, which can cause premature wear of parts.



Wipe the CD-3316 occasionally with a damp cloth to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the CD-3316.

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-3316's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your CD-3316 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-3316 and the radio or TV
- Use outlets on different electrical circuits for the CD-3316 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 cassette player. 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 to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the record/play head, pinch roller, capstan, and erase head.

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

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

SPECIFICATIONS

CASSETTE DECK

Tape Speed
 1 7/8 ips
 (4.75 cm/sec) Tape System
 4
 Tracks/Side/Stereo Signal to Noise
 Ra-
 tio..... 40
 dB Channel Separation
 35
 dB

CD PLAYER (Test Point at CD Output)

Type CD
 Player with Optical Pickup Channels
 Two
 Channels (Stereo) Frequency Re-
 sponse
 20 Hz to 20 kHz Digital Filter
 8 Times
 Oversampling Signal to Noise Ratio
 70 dB
 Wow and Flutter

 0.45%

RADIO

Frequency Range: FM
 88 MHz to
 108 MHz AM
 530 kHz to 1710 kHz Antennas: FM

 .. Rod AM
 Fer-
 rite Core Usable Sensitivity: FM (1 IHF
 Usable Sensitivity) 6
 uV AM (20 dB S/N Sensitivity)
 470 uV/m

GENERAL

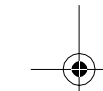
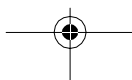
Output Power (10% THD)
 2 Watts/CH
 DC Speakers
 Dy-
 namic, 4-Inch x 2 Power Supply
 AC
 120V/60Hz DC 9V, 6 D Batteries Di-
 mensions (HWD)
 7 3/4 x 15 1/2 x
 9 Inches Weight 7
 lbs 11 oz (3.5 Kg) (Without Batteries)

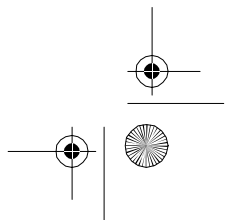
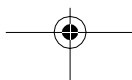
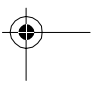
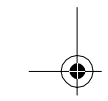
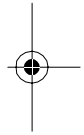
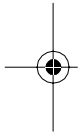
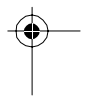
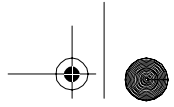
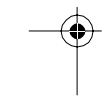
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

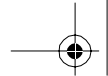
90-Day Warranty

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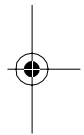
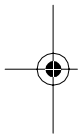
This product is warranted against defects for 90 days from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase 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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