



**RadioShack**

www.radioshack.com™



**AM/FM Digital Tune  
Auto Reverse Stereo  
Cassette Player**



**Owner's Manual**  
Please read before using this equipment.



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## **Features**

Your RadioShack Digital Tuning AM/FM Stereo Auto-Reverse Cassette Player delivers excellent sound from its built-in radio or your favorite cassette tapes, using optional speakers or stereo headphones. You can set the time on the display, set an alarm, and store up to 20 radio stations in memory. PLL (Phase-Locked Loop) circuitry gives you precise tuning and drift-free reception.

**AM/FM Radio with 20-Station Memory**  
— lets you store up to 20 radio stations (10 FM and 10 AM) in memory so you can quickly tune to your favorite stations.

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**Auto-Reverse Cassette Deck** — lets you continuously play a cassette tape.



**LCD with Clock and Alarm** — displays the current time and lets you set the cassette player to sound an alarm at the time you select.



**BASS ON/OFF Switch** — lets you emphasize bass sounds to suit your listening preferences.



 **Jack** — lets you connect headphones for private listening, or speakers to share the sound with others.

**Seek Tuning** — searches forward or backward to the next strong station in the selected band, so you can quickly find new stations.



**Three Power Options** — let you power the cassette player from internal batteries, standard AC power (with an optional AC adapter), or your vehicle's cigarette-lighter socket (with an optional DC adapter).

**Removable Belt Clip** — lets you attach the cassette player to your belt for hands-free carrying when you are on the go.

**Key Lock** — lets you lock any of the other front panel keys, to prevent you from accidentally turning the radio on or off, resetting the clock time, or losing radio stations stored in memory.

**Note:** You need a pair of headphones or amplified speakers (neither supplied) with a 1/8-inch plug to operate your cassette player. Your local RadioShack store sells



a wide variety of headphones and speakers.



## THE FCC WANTS YOU TO KNOW

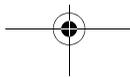


This equipment complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly.



To eliminate interference:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.



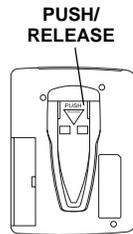
- Use outlets on different electrical circuits for the equipment and the radio or TV.

Consult your local RadioShack store if the problem still exists.

## **Preparation**

### **USING THE BELT CLIP**

To attach the belt clip, align the tab on the back of the clip with the recess on the back of the case, then slide the clip up until it snaps into place.





To remove the belt clip, press the upper part of the clip and slide it down.

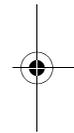


## POWERING THE CASSETTE PLAYER

You can power your cassette player from any of three power sources:



- internal batteries (not supplied)
- standard AC power (with an optional AC adapter)
- your vehicle's cigarette-lighter socket (with an optional DC adapter)



**Note:** Connecting an optional adapter disconnects internal batteries.



## Using Batteries

You can power your cassette player from two AA batteries (not supplied). We recommend RadioShack alkaline batteries. You can also use rechargeable nickel-cadmium batteries. If you use rechargeable batteries, you also need a battery charger (not supplied, available at your local RadioShack store).

### Cautions:

- Do not mix old and new batteries, different types of batteries (standard, alkaline, or nickel-cadmium), or rechargeable batteries of different capacities.
- Use only fresh batteries of the required size and type.



1. Press down on the battery compartment cover and slide it in the direction of the arrow, then lift it up on its hinge to open it.
2. Install the batteries as indicated by the polarity symbols (+ and -) marked inside.
3. Replace the cover.



**Note:** If your cassette player stops working, remove one of the batteries, then re-install it.



Replace the batteries when the low battery icon flashes, the sound distorts, or the volume weakens.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.



**Caution:** If you do not plan to use the cassette player for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

**Important:** The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and dis-





posal bans/restrictions in your area. RadioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.



### Using AC or DC Power



You can power the cassette player using a 3V, 300 mA AC or DC adapter and a size H Adaptaplug<sup>®</sup>, (neither supplied). All are available at your local RadioShack store.



#### Cautions:



You must use a Class 2 power source that supplies 3V DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the cassette player's **DC 3V** jack. Us-



ing an adapter that does not meet these specifications could damage the cassette player or the adapter.

- Always connect the adapter to the cassette player before you connect it to the power source. When you finish, disconnect the adapter from the power source before you disconnect it from the cassette player.

1. Set the adapter's voltage switch to 3V.

2. Insert the Adaptaplug into the adapter's socket. Line up TIP on the plug with +POS on the socket.

3. Insert the barrel plug into the cassette player's **DC 3V** jack.



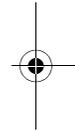
4. Plug the AC adapter into a standard AC outlet or the vehicle's cigarette-lighter socket.



**Note:** If the cassette player does not operate when you turn it on, remove the DC adapter from your vehicle's cigarette-lighter socket and check the socket for debris. Also, check the fuse in the adapter and your vehicle's fuse block.



## SETTING THE CLOCK



1. In the time mode, press **MEMORY/CLOCK**. The current time flashes.

**Note:** If you do not press **HOUR** or **MIN** within 5 seconds, the current time stops flashing. If that happens, repeat this step.



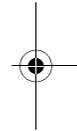


2. Repeatedly press (or hold down) **HOUR** until the display shows the correct hour.



3. Repeatedly press (or hold down) **MIN** until the display shows the correct minute.

4. When the display shows the correct time, press **MEMORY/CLOCK** again, or wait until the display stops flashing.



## CONNECTING HEADPHONES OR AMPLIFIED SPEAKERS

To listen to the cassette player, you need a pair of headphones or amplified speakers (neither supplied) with a  $\frac{1}{8}$ -inch (3.5-mm) plug. Your local RadioShack store





carries a wide selection of headphones and amplified speakers.



Insert the headphones' or speakers' 1/8-inch plug into the cassette player's jack.

### 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.





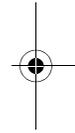
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.



### Traffic Safety



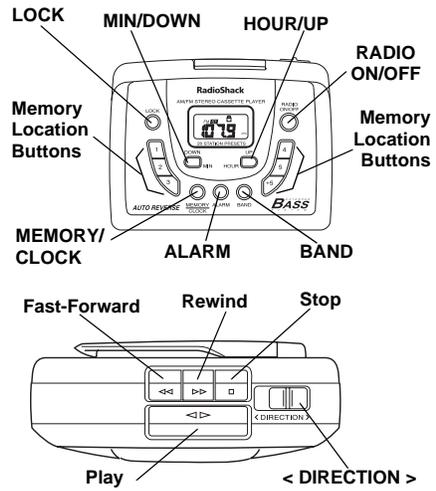
Do not wear headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and can be illegal in some areas.



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



## **A Quick Look at Your Cassette Player**



## **Using the Radio**

**Important:** Make sure you have connected headphones or speakers to the cassette player. See “Connecting Headphones or Amplified Speakers” on Page 15.

1. Press **RADIO ON/OFF** to turn on the radio.
2. Adjust **VOLUME** to a comfortable listening level.
3. Press **BAND** until the display shows the desired band (**AM** or **FM**).
4. Tune to the desired station using manual or seek tuning.



**Manual Tuning:** Repeatedly press **UP** or **DOWN** to tune up or down the selected band. To rapidly tune the band, hold down **UP** or **DOWN**.



**Seek Tuning:** Hold down **UP** or **DOWN** for about 1 second. The cassette player tunes up or down the selected band, then stops at the next higher or lower station that has a strong signal.



**Notes:**

- The cassette player has a built-in AM antenna, and the headphones' or speakers' cord serves as an FM antenna. For the best AM reception, rotate the cassette player. For the best FM reception, fully uncoil the headphones' or speakers' cord.





- If FM stereo reception is poor or noisy, switch **STEREO/MONO** to **MONO**. The sound is not in stereo, but reception should improve.



5. Set **BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.

6. To turn off the radio, press **RADIO ON/OFF**.



## STORING STATIONS IN MEMORY



You can store up to 20 radio stations (10 FM and 10 AM) in memory, then quickly tune to a stored station by pressing a memory button (or **+5** and a memory button).

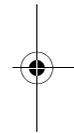




1. Press **RADIO ON/OFF** to turn on the radio.
2. Repeatedly press **BAND** until the display shows the desired band (**AM** or **FM**).
3. Tune to the first station you want to store. The display shows the frequency.



4. Press **MEMORY/CLOCK**. **MEMO** flashes on the display for about 5 seconds.



**Note:** If you do not press a memory location button or **+5** within about 5 seconds, **MEMO** disappears from the display. Start again from Step 4.

5. To store stations into memory locations 1–5, press a memory location





button (1–5), then press **MEMORY/CLOCK** again. **MEMO** disappears.



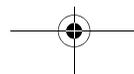
To store stations into memory locations 6–10, press **+5**, then one of the memory location buttons (1–5). For example, if you press **+5** then **1**, the stereo stores the selected frequency into memory location **6**. Press **MEMORY/CLOCK** again.



6. Tune to the next station you want to store, then repeat Steps 4 and 5.



To replace a station you stored, store a new station in that memory location.





## USING LOCK



**LOCK** helps prevent you from accidentally turning the radio on or off, resetting the clock time, or losing radio stations stored in memory.

Press **LOCK** to activate this function. The lock icon appears. To deactivate the lock function, press **LOCK** again. The lock icon disappears.



## **Using the Cassette Player**

**Important:** Make sure that you have connected headphones or speakers to the cassette player. See “Connecting Headphones or Amplified Speakers” on Page 15.

**Caution:** We do not recommend using C-120 cassette tapes. They are very thin and can easily become tangled in the tape-handling parts.

1. Press **RADIO ON/OFF** to turn off the radio.
2. Take up any slack in the cassette tape by turning its hub with your finger or a pencil. If you do not remove excess slack, the tape might become

tangled in the play mechanism.  
Avoid touching the tape.

3. Pull open the cassette compartment door.
4. Slide the cassette tape into the guides in the door with the tape's open edge facing up, the side you want to hear facing out, and the full reel to the left. Then close the door.

5. Press ◀▶ to play the tape.

**Notes:**

- After playing to the end of a side, the tape changes direction to play the other side.
- To reverse the tape direction during playback, slide < **DIRECTION** > to the other setting.



- To fast-forward or rewind the cassette, press **▶▶** or **◀◀**. When you reach the desired section, press **■** then **◀▶** to resume play.

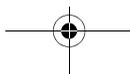


6. Adjust **VOLUME** to a comfortable listening level.

7. Set **BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.



8. Press **■** stop the tape.



## **Using the Alarm**

You can set the cassette player to automatically sound a beeping alarm at a time you select.

1. Press **RADIO ON/OFF** to turn off the radio. The display shows the time.
2. Press **ALARM**. **ALARM** and the alarm time flash.

**Note:** If you do not press **HOUR** or **MIN** within 5 seconds, **ALARM** and the alarm time stop flashing. If this happens, repeat Step 2.

3. Repeatedly press **HOUR** until the display shows the desired hour.



4. Repeatedly press **MIN** until the display shows the desired minute.



5. When the display shows the desired alarm time, wait until **ALARM** and the alarm time stop flashing to allow the cassette player to store the setting.

At the preset alarm time, the alarm beeps, even if a cassette or the radio is playing. Press any key on the front panel to silence the alarm. The alarm will sound again the next day at the set time.



To turn off the alarm so it does not sound again the next day, press **ALARM** twice so **ALARM** disappears from the display.



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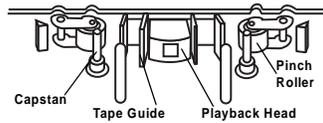
## **Care**

Keep the cassette player dry; if it gets wet, wipe it dry immediately. Use and store the cassette player only in normal temperature environments. Handle the cassette player carefully; do not drop it. Keep the cassette player away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the cassette player's internal components can cause a malfunction and invalidate its warranty. If your cassette player is not performing as it should, take it to your local RadioShack store for assistance.

## 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. Follow these steps after every 20 hours of operation.



1. Remove the batteries and disconnect any other power source.
2. Open the cassette compartment door.
3. Press ◀▶ to expose the tape-handling parts.



4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the playback head, pinch roller, capstan, and tape guides.



5. When you finish cleaning, press ■ and close the cassette compartment door. Then reconnect power.



Your local RadioShack store carries a full line of cassette player cleaning supplies.



## RESTORING TAPE TENSION AND SOUND QUALITY

After you play a cassette several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.





To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

**Caution:** Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.



## **Specifications**

### **GENERAL**

Power Requirements ..... DC 3V  
Power Sources ..... 2 AA Batteries,  
AC Adapter, DC Adapter  
Battery Life ..... Approx. 14 Hours (Nominal)  
Dimensions (HWD) ..... 4.53 × 3.46 × 1.5 in  
(115 × 88 × 38 mm)  
Weight ..... 6.9 oz (200 g)

### **CASSETTE DECK**

Tape Speed ..... 1<sup>7</sup>/<sub>8</sub> ips (4.75 cm/s)  
Tape System ..... Four Track, Stereo  
Frequency Response  
(at -6dB)..... 125–8,000 Hz  
S/N Ratio ..... 44 dB  
Motor ..... 3 Volt Motor with Governor

**RADIO**

Frequency:

AM ..... 530 – 1710 kHz

FM ..... 88 – 108 MHz

AM Sensitivity at 20 dB S/N ..... 2000  $\mu$ V/m

AM Selectivity ( $\pm$ 10 kHz) ..... 15 dB

FM IHF Usable Sensitivity ..... 10  $\mu$ V

FM Selectivity ( $\pm$ 400 kHz) ..... 15 dB

10% THD Output

Power ..... 10 mW (32 Ohms)

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

### Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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

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12/99

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