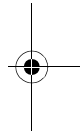
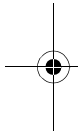


Cat. No. 12-1626  
**OWNER'S MANUAL**

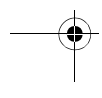
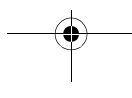
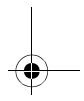
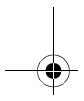
Please read before using this equipment.

# ACR-326

**Atomic Clock Radio**



**OPTIMUS®**



## FEATURES

Your Optimus Atomic Clock Radio combines a simple design with advanced technology. It automatically updates the clock setting by receiving a 60 kHz long-wave radio signal from station WWVB which broadcasts the time according to the U.S. government's atomic clock in Boulder, Colorado. The clock checks this continuous signal several times each day, giving you the most accurate time possible. Its features include:

**World Times Display** — lets you see the current time for the United States time zones and up to 24 world cities.

**NASA (National Aeronautics and Space Administration) and Military Time Accuracy** — the Colorado radio signal provides an exact standard for your home or business.

**WWVB External Antenna** — receives the atomic clock signal with no installation.

**Display Shows Home Time, World Times, Date, and Calendar** — to provide you with accurate, complete information.

**3" Speaker** — provides excellent radio fidelity.

**AM/FM Radio** — lets you wake to programs on your favorite broadcast station.



**Dual Alarm** — lets you set a separate daily alarm for weekdays and weekends (for example).

**Backlit Display** — lets you see the display in low light situations.

**Sleep Timer** — lets you set the radio to play as you fall asleep, then automatically turn off.

**Snooze Bar** — lets you temporarily turn off the alarm or radio for about 9 minutes so you can get a few extra minutes of sleep.

**WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<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.		



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.


## PREPARATION

### CONNECTING AC POWER/ SETTING YOUR LOCAL TIME ZONE

Plug the clock radio's power cord into a standard AC outlet. As soon as you connect AC power, all display segments briefly appear, then the following appear:

- **LAX** (indicating the time zone for Los Angeles) flashes for about 15 seconds and  flashes. While **LAX** flashes, set your local time zone at this point by selecting a city in your time zone from the chart on Page 8, repeatedly pressing **UP** or **DOWN** until that city appears, then pressing **MODE** once to store your selection.

**Note:** If **LAX** stops flashing before you press **UP** or **DOWN**, unplug the clock radio, wait about 30 seconds, then plug the clock radio back in and repeat the above procedure.

- **--:--** and **00** appear and  flashes every two seconds. The seconds start to count up from **00** to **59** while the radio searches for a good WWVB signal. See "Automatic Time/Date Setting" on Page 6 and "Checking the Signal Status" on Page 7

**Caution:** The clock radio's AC power cord is equipped with a polarized plug to prevent electric shock. One blade on the cord's plug is wider than the other and the plug only fits an outlet one way. If you can not easily insert the plug, turn it over and try again. Do not force it.

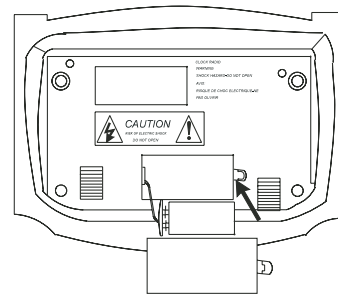
### INSTALLING A BACKUP BATTERY

To keep the clock running for up to 8 hours during an AC power failure, install a 9-volt battery (not supplied) in the battery compartment. For the longest life, we recommend a RadioShack alkaline battery.

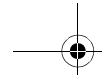
**Caution:** Use only a fresh battery of the required size and recommended type.

**Note:** To prevent unnecessary drain on the battery, plug in the power cord *then* install the battery.




Follow these steps to install a back-up battery.



1. Slide the battery compartment cover in the direction of the arrow and remove it.
2. Snap the battery onto the connector in the compartment and place the battery in the compartment.
3. Replace the cover.



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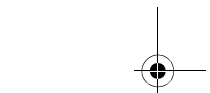
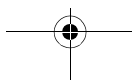
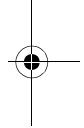
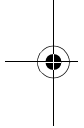
When  appears, check or replace the backup battery. When you connect a new battery,  disappears. Press **SNOOZE** to reset the backup battery monitor if the  does not disappear with a new battery installed. Under normal conditions, a battery lasts about 6 months.

**Warning:** Always dispose of an old battery promptly and properly. Do not burn or bury it.

**Caution:** Always remove an old or weak battery. Batteries can leak chemicals that can destroy electronic parts.

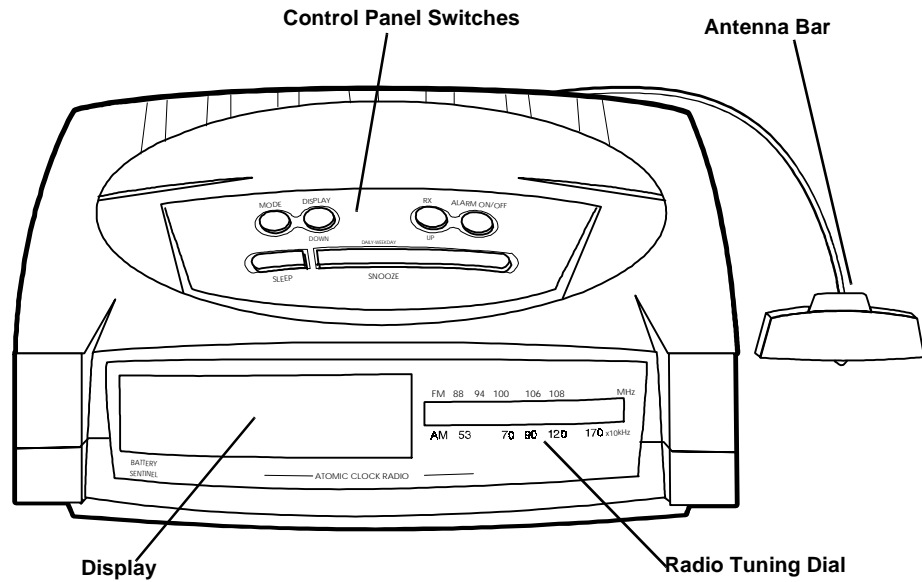
**Notes:**

- The display does not light when the ACR-326 is operating only on battery power.
- A prolonged power failure can drain the battery. If the display flashes after an AC power failure, the battery is too low to run the clock. Replace the battery and reset the clock.

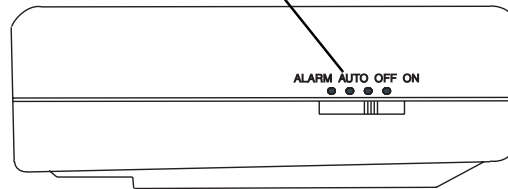




# A QUICK LOOK AT THE CONTROLS

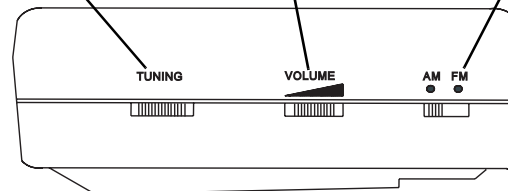


Alarm, Radio, Operation

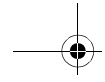


(Left Side View)

TUNING Control VOLUME Control FM/AM Switch



(Right Side View)



## PREPARATION

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### AUTOMATIC TIME/DATE SETTING

The ACR-326 checks the WWVB time signal four times a day, at midnight, 6 AM, noon, and 6 PM. When the clock receives a good signal, it automatically sets the time and date. You can obtain more information about WWVB on the World Wide Web at:

[www.bldrdoc.gov/timefreq/wwvstatus.htm](http://www.bldrdoc.gov/timefreq/wwvstatus.htm)

You can also set the ACR-326 manually. See "Manually Setting the Clock" on Page 8.


### Setting Up the Antenna

To ensure good reception, fully extend the antenna bar's cable away from the clock and as near a window as possible.


After you have found the best location for reception, attach the antenna bar to a window or to a wall using the appropriate hardware or double-sided tape (neither supplied).

**Note:** Do not place the clock near a TV, high power cable, or metal table, because these items could interfere with radio signal reception.

### Auto-Setting the Clock

Once you have plugged the clock into a standard AC outlet and have positioned the clock to receive a strong signal, **-:--** and **00** appear and  flashes every two seconds. Seconds should start to count up from **00** to **59** in one complete cycle without stopping or resetting. If the signal is poor, counting stops or starts over.

Reposition the antenna until a complete count-up cycle finishes, then secure the antenna to the selected location. See "Setting Up the Antenna".




If the clock receives a strong radio signal, the clock's time and date are set automatically.  appears steadily. This process takes from 2 to 5 minutes.

**Note:** On very cloudy and stormy days, the signal might not be strong enough to reset the clock. If the signal is interrupted, **-:--** appears and you should manually set the clock (see "Manually Setting the Clock" on Page 8).


To turn off automatic time setting, repeatedly press **RX** until the antenna symbol disappears.

## Checking the Signal Status

The following chart shows the symbols for the current or last update to the radio reception.

 <b>Not Flashing</b>	Within the last 6 hours, the signal reception was poor and the clock settings were not set or updated.
 <b>Flashing</b>	The clock is now receiving a WWVB signal.
 <b>Not Flashing</b>	Within the last 6 hours the signal reception was strong enough to automatically set the clock's time and date.

## Daylight Savings Time (DST)

The WWVB radio signal adjusts for daylight saving time so the time displayed on the clock is accurate, regardless of the time of year. When the signal contains DST information,  appears.

**Hint:** If you are in an area that does not use daylight saving time, press **MODE** five times then press **DOWN** once to set your local time (city) to one time zone *west* of where you are located. When DST ends, reset the clock to your city's usual time zone.

## RESETTING YOUR LOCAL TIME ZONE

The clock radio is preset to the Pacific Standard (LAX) time zone.

Follow these steps to select a different local time zone if you have already set a time zone.

**Note:** The time zone you set will take effect the next time the clock synchronizes with WWVB.

1. Select a city in your time zone from the chart at the end of this section.

**Note:** Time zones designated by their UTC number indicate that no known city exists in that part of the globe. Typically these zones include major sections of ocean.

2. Press **MODE** five times. The currently selected city flashes while the time setting disappears.

3. Press **UP** to select a city (time zone) east of your location, or **DOWN** to select a city west of your location.
4. Press **MODE** twice to store your setting and resume normal operation.

To select a second (world) time zone, see "Setting the World Times" on Page 9.

You See	City	UT Difference
LON	London	0
MUN	Munich	+1
CAI	Cairo	+2
MOW	Moscow	+3
DXB	Dubai	+4
KHI	Karachi	+5
DAC	Dhaka	+6
BKK	Bangkok	+7
HKG	Hong Kong	+8
TYO	Tokyo	+9
SYD	Sydney	+10
NOU	Noumea	+11
WLG	Wellington	+12
-11	GMT -11	-11
HNL	Honolulu (HST)	-10
ANC	Anchorage (AST)	-9
LAX (default)	Los Angeles (PST)	-8
DEN	Denver (MST)	-7
CHI	Chicago (CST)	-6
NYC	New York (EST)	-5
CCS	Caracas	-4
RIO	Rio De Janeiro	-3
-2H	GMT -2	-2

You See	City	UT Difference
-1H	GMT -1	-1

## MANUALLY SETTING THE CLOCK

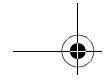
You can manually set the time and calendar (month, day, year, and day of the week). The radio signal automatically updates the clock the next time the clock receives it.

Follow these steps to manually set the time and the calendar.

1. Press **MODE**. The displayed hours and minutes flash while the seconds continue to count.
2. Repeatedly press **UP** or **DOWN** to change the time in 1 minute increments. Hold down **UP** or **DOWN** to change the time in 10 minute increments.
 

**Note:** If you do not press any button within 15 seconds throughout this process, the clock stores any settings changed to that point and returns to normal operation.
3. Press **MODE** to store the time setting. The month, date, day of the week, and year flash.
4. Repeatedly press **UP** or **DOWN** to change the calendar date in 1 day increments. Hold down **UP** or **DOWN** to change the date in 10 day increments.





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**Note:** Changing the date automatically changes the month, the day of the week, and the year. The calendar automatically adjusts for a leap year, also.

5. Press **MODE** to store the setting.

“Resetting Your Local Time Zone” on Page 7.

3. Press **UP** to select a city (time zone) east of your location. Press **DOWN** to select a city west of your location.
4. Press **MODE** to store your selection.

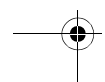
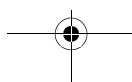
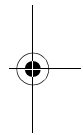
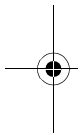
## SETTING THE WORLD TIMES

For the purpose of timekeeping, the globe is divided into 24 time zones. The zone where Greenwich, England is located is considered the starting zone (represented by 12:00 in the chart on Page 15). The time in every other zone is set based on the time in Greenwich, England; therefore, the times were described as “Greenwich Mean Time” (GMT).

For clarity, the “GMT” reference was recently changed to “UTC,” which stands for Universal Time Coordinate. The radio station WWVB transmits the time based on the starting UTC time zone (12:00). By setting your local city, you program the clock a certain number of hours ahead or behind the UTC starting point. The clock’s initial setting of **LAX** (for example) is –8 hours with respect to the UTC.

Follow these steps to set a second (world) time zone.

1. Press **MODE** six times. The time appears and another city (in a different time zone) appears.
2. Select a city that is in the desired world time zone from the chart in



## OPERATION

### SELECTING THE DISPLAY FORMAT

The Atomic Clock has four different display formats. To select the desired display, hold down (or repeatedly press) **DISPLAY** until the clock displays the desired format.

Select This Format	The Clock Shows
- -	The local time and day of the week.
D -	The local time, day of the week, then the month, date, and year.
-W	The local time, day of the week, then the selected world time zone.
DW	The local time, day of the week, then the month, date, and year, followed by the selected world time zone.

### USING THE RADIO

1. Fully extend the AC power cord which also serves as the FM antenna.
2. Slide **ALARM/AUTO/OFF/ON** to **ON**.
3. Slide **AM/FM** to the desired band.
4. Rotate **TUNING** to the desired station.

**Note:** The AM antenna is built-in. To improve the AM reception, rotate the clock radio.

5. Rotate **VOLUME** to the desired sound level.
6. To turn off the radio, slide **ALARM/AUTO/OFF/ON** to **OFF**.



### USING THE ALARMS

#### Setting the Alarms

You can set two independent alarms to sound each day of the week (Monday to Sunday) or from Monday to Friday.

1. Press **MODE** three times to set Alarm-1 or four times to set Alarm-2. **AL1** or **AL2** appears to confirm the selected alarm. The time and the days of the week flash.
2. Press **UP** or **DOWN** to change the alarm time setting in 1 minute increments, or hold down **UP** or **DOWN** to change the time in 10 minute increments.
3. Press **DAILY/WEEKDAY** to have the alarm sound either Sunday through Saturday (daily) or only Monday through Friday (weekday). Either **Su Mo Tu We Th Fr Sa** or **Mo Tu We Th Fr** appear at the top of the display to confirm your selection.
4. Repeatedly press **MODE** until the normal time display appears, or simply wait about 15 seconds. The clock stores the setting then resumes operation.

## Using the Alarms

1. Repeatedly press **MODE** until the desired alarm's display (**AL1** or **AL2**) appears, then press **ALARM ON/OFF** to set the selected alarm to sound.  or  appears to confirm that one or both alarms are set to sound.
2. Repeatedly press **MODE** until the normal time display appears or wait 15 seconds. The clock stores the setting and resumes normal operation.
3. To wake to the alarm sound, slide **ALARM/AUTO/OFF/ON** to **ALARM**. At the preset time, the alarm sounds for up to 60 minutes then it turns off. To stop it sooner, press **ALARM ON/OFF** or slide **ALARM/AUTO/OFF/ON** to **OFF**.
4. To wake to the radio, slide **ALARM/AUTO/OFF/ON** to **AUTO**. At the preset alarm time, the radio automatically turns on for up to 60 minutes. To turn off the radio sooner, press **ALARM ON/OFF** or slide **ALARM/AUTO/OFF/ON** to **OFF**.


## Using Snooze

To temporarily silence the alarm (or the radio), press **SNOOZE**. This silences the alarm (or the radio) for about 9 minutes. You can press **SNOOZE** as many times as you like.

## USING THE SLEEP TIMER

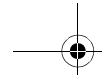
You can set the radio to play for up to 1 hour and 59 minutes then automatically turn off. You can use this feature to have the radio play as you go to sleep.

Follow these steps to set the sleep timer.

1. Set **ALARM/AUTO/OFF/ON** to the desired setting (**ALARM**, **AUTO**, or **OFF**).
2. Press **SLEEP**.  and **1:00** appear, and the radio turns on.
3. To change the sleep timer's duration to less than 1 hour, repeatedly press **DOWN**. To set the sleep timer for up to 1 hour and 59 minutes, repeatedly press **UP**.

### Notes:

- If you do not press **UP** or **DOWN** within 3 seconds, the sleep timer is set to 1 hour. Press **SLEEP** again to change the setting.
  - If the clock reaches a preset alarm time while the sleep timer is counting down, the alarm cancels the balance of the sleep timer setting.
4. To turn off the radio before the set sleep time has elapsed, press **SNOOZE**. To cancel the sleep timer at any time, slide **ALARM/AUTO/OFF/ON** to **ON**.



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## RESETTING THE CLOCK

On rare occasions, your clock might not work properly or it might lock up. If that happens, follow these steps to reset the clock. If you still encounter difficulties, take it to your local RadioShack store for assistance.

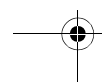
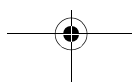
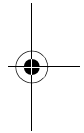
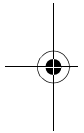
1. Disconnect the AC power cord and remove the back-up battery.
2. Reconnect the clock radio to AC power and reinstall the battery.

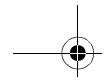
## THE FCC WANTS YOU TO KNOW

Your clock radio might cause TV or radio interference even when it is operating properly. To determine whether your clock radio is causing the interference, turn off your clock radio. If the interference goes away, your clock radio is causing it. Try to eliminate the interference by:

- moving your clock radio away from the TV or radio
- connecting your clock radio to an outlet that is on a different electrical circuit from the TV or radio
- contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using the clock radio.





## CARE AND MAINTENANCE

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Your Atomic Clock Radio is an example of superior design and craftsmanship. The following suggestions will help you care for your clock radio so you can enjoy it for years.



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



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



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



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

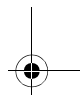
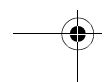
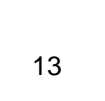
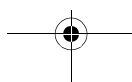
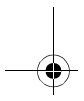
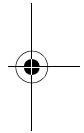
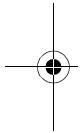


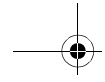
Use only a fresh battery of the required size and recommended type. Batteries can leak chemicals that damage your clock radio's electronic parts.



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

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

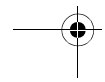
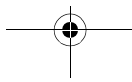


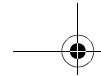


# SPECIFICATIONS

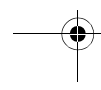
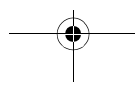
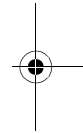
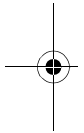
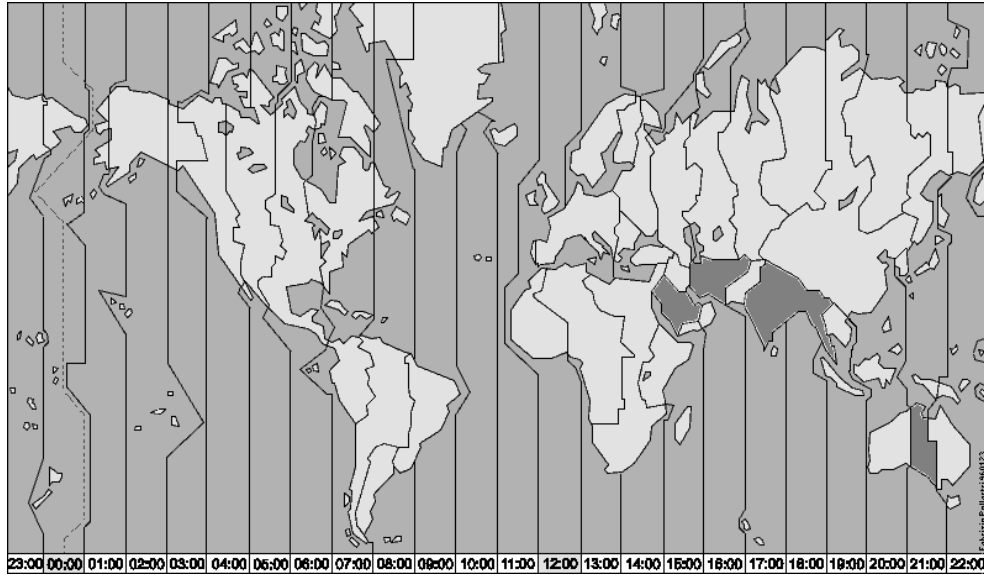
Bands .....	AM: 530–1710 kHz FM: 88–108 MHz
Power Output .....	360 mW (maximum)
Speaker .....	3 Inches (7.6 cm) Ferrite Dynamic-Type 8 ohms
Power Requirements .....	120V AC, 60 Hz, 8 Watts DC 9V (Battery Backup)
Dimensions (HWD): .....	$2^{13}/_{16} \times 7^{7}/_{8} \times 7^{1}/_{16}$ inches (72 × 200 × 180 mm)
Weight .....	2 lbs 5 oz (1058 g)

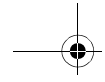
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.





# UTC TIME ZONE CHART





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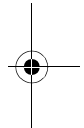
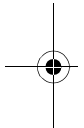
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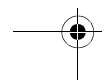
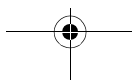
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