announced). Another push of the UP or DOWN BUTTON will set the alarm minute, while the hour will be changed when "00" minute is run through. Press and hold the UP or DOWN BUTTON and the digit will fast advance. To end the alarm setting mode, just leave the unit (buttons) untouched for about 5 seconds.

Alarm on/off and hourly announcement
To set the alarm on, place the ALARM SWITCH (at right side of the unit) to "ON" position. Then the preset alarm time (e.g. AM 6:10) will be announced (e.g. *"the alarm will go off at six ten AM"*) and the alarm mark is shown on the display (above the alarm time). When current time reaches the alarm time, the unit will announce the current time with a beep tone (e.g. *"beep beep, the time is now six ten AM"*) continuously for 5 minutes. To activate the snooze function, press the SNOOZE BUTTON (at top of the unit) and the alarm will be stopped and resume after 5 minutes. To stop the alarm, place the ALARM SWITCH to "OFF" or "HOURLY ANNOUNCEMENT" position.

When the ALARM SWITCH is placed to "HOURLY ANNOUNCEMENT" position (*"hourly announcement on"* will be announced), the unit will announce the time at every hour during 8 AM to 10 PM. Outside this range hourly announcement is automatically shut off.
To deactivate both the alarm function and the hourly announcement function, place the ALARM SWITCH to "OFF" position.

Select the announcement volume
To select the high volume level, set the VOL (VOLUME) SWITCH to "HI" position. To select the low volume level, set to "LOW" position.

Time and date announcement
At any time (except in setting mode and when alarm is sounding), press the SNOOZE BUTTON once and current time is announced; press the SNOOZE BUTTON twice quickly and the date is announced.

e.g. current time and date is AM 4:02 and April 1st (Sunday).
Press SNOOZE BUTTON once: *"The time is now four o two AM"* will be announced.
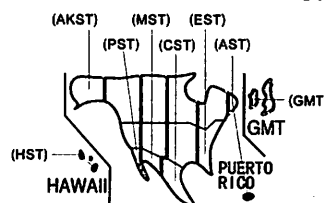Press SNOOZE BUTTON twice quickly: *"Today's Sunday, April first"* will be announced.

ATTENTION:
There will be certain places (especially near the eastern coast) that the radio signal is too weak to be received. Also, during daytime, there may be too much interference that makes reception failed. Under both circumstances, please set the time manually.
The unit has an automatic process to start reception, when the clock is showing time between 2-6am. At midnight, interference dropped to a minimum level and makes it a perfect environment for time radio signal reception. If the time of the clock is not set manually when it failed reception at daytime at the first time initiation, then the automatic process may start in the daytime everyday (not during midnight) and eventually keep the unit not receiving the signal.

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APPENDIX: TIME ZONE TABLE

Please set the Time Zone accordingly.

A. Pacific (Time Zone: GMT-8)

Major Cities	State	Major Cities	State
Las Vegas	Nevada	Reno	Nevada
Lewiston	Idaho	San Diego	California
Los Angeles	California	San Francisco	California
Portland	Oregon	Seattle	Washington

B. Mountain (Time Zone: GMT-7)

Major Cities	State	Major Cities	State
Albuquerque	New Mexico	Phoenix	Arizona
Billings	Idaho	Rapid City	S. Dakota
Boise	Idaho	Salt Lake City	Utah
Casper	Wyoming	Santa Fe	New Mexico
Denver	Colorado	Scottsbluff	Nebraska
El Paso	Texas	St. George	Utah
Helena	Idaho	Tucson	Arizona
Idaho Falls	Idaho	Yuma	Arizona
Las Cruces	New Mexico		

C. Central (Time Zone: GMT-6)

Major Cities	State	Major Cities	State
Amarillo	Texas	Memphis	Tennessee
Baton Rouge	Louisiana	Minneapolis	Minnesota
Birmingham	Alabama	Mobile	Alabama
Bismarck	N. Dakota	Nashville	Tennessee
Brownsville	Texas	New Orleans	Louisiana
Chicago	Illinois	Oklahoma City	Oklahoma
Dallas	Texas	Omaha	Nebraska
Des Moines	Iowa	Pensacola	Florida
Dodge City	Kansas	Pierre	S. Dakota
Houston	Texas	San Antonio	Texas
International Falls	Minnesota	St. Louis	Missouri
Jackson	Mississippi	St. Paul	Minnesota
Kansas City	Missouri	Topeka	Kansas
Little Rock	Arkansas		

D. Eastern (Time Zone: GMT-5)

Major Cities	State	Major Cities	State
Atlanta	Georgia	Manchester	New Hampshire
Atlantic City	Delaware	Miami	Florida
Baltimore	Maryland	Montpelier	Vermont
Boston	Massachusetts	New York	New York
Buffalo	New York	Norfolk	Virginia
Charlotte	North Carolina	Philadelphia	Pennsylvania
Cincinnati	Ohio	Pittsburgh	Pennsylvania
Cleveland	Ohio	Portland	Maine
Columbus	Ohio	Providence	Rhode Island
Detroit	Michigan	Raleigh	North Carolina
Hartford	Connecticut	Richmond	Virginia
Indianapolis	Indiana	Tallahassee	Florida
Jacksonville	Florida	Tampa	Florida
Johnson City	Tennessee	Washington	Maryland
Louisville	Kentucky		

Notes: Please notice that some states have crossed over the boundary of two time zones.

E. Atlantic Standard Time(Time Zone: GMT-4)
F. GMT (Greenich Meridian Time/Universal Co-ordinated Time) (Time Zone: GMT-0)
G. Hawaiin Time (Time Zone: GMT-10)
H. Alaskan Time (Time Zone: GMT-9)

The radio controlled clock works on the principle of receiving time signals from the WWVB time signal broadcasting station. If time signal can be received, the clock will be synchronized with the time of the US Atomic Clock and change to standard time / daylight saving time automatically. To enhance good receiving condition, avoid placing the unit near television sets, metal surfaces, computers or electric devices as these equipment will interfere the reception of radio signals.

Features:
- Full range human voice time and date announcement, with smooth and natural sound quality.
- Radio controlled. Change to standard time / daylight time automatically.
- Display time with running second, month, date, day-of-week and alarm time.
- Hourly time announcement between 8AM to 10PM inclusively. User can select to turn on or off the hourly announcement.
- Extra long 5 minute alarm sound, with beep tone and current time announcement.
- 5-minute snooze function.
- high and low announcement volume selection.
- Battery low indicator.
- A self introductory message after the batteries are installed.

Battery installation and replacement
The unit uses 2xAA (or equivalent) batteries. To install/replace batteries, please open the battery compartment located at the bottom of the unit. Insert the batteries by following the polarity marked and close the battery cover. The unit is ready for use now.

When the display is dim or the sound quality drops, it means the battery power is not enough. Please replace both batteries with new ones.

To reset the unit, press the RESET BUTTON once (located inside the battery compartment).

Receive the time radio signal
The unit will search for time radio signals automatically when it is powered on. The radio signal mark on the right of the display (↑) will start pulsing to show the receiving status. If time signal is received, synchronization will take 3-15 minutes and the unit will show the received time. The radio signal mark will show three solid curves (pulsing stopped) to indicate that reception is successful.

ATTENTION: During daytime, there may be too much external interference that makes reception failed. Under such situation, please set the time manually because:
The unit has an automatic process to start reception, when the clock is showing time between 2-6am. At midnight, interference dropped to a minimum level and makes it a perfect environment for time radio signal reception. If the time of the clock is not set manually when it failed reception at daytime at the first time initiation, then the automatic process may start in the daytime everyday (not during midnight) and eventually keep the unit not receiving the signal.

Selecting the appropriate time zone
Please select the appropriate time zone before reception started / after radio signal reception is completed. Otherwise the unit may display incorrect time if the time zone was not set. The right side of the display shows a digital map representing the various time zones.

To set the time zone, press and hold the TIME/CAL SET (TEST) BUTTON until the year digits flash (*"setting year"* will be announced). The unit is now in setting mode. Press the TIME/CAL SET BUTTON twice and the digital map will flash (*"setting time zone"* will be announced). Set to your required time zone: PACIFIC TIME, MOUNTAIN TIME, CENTRAL TIME, EASTERN TIME, ATLANTIC TIME, GMT (Greenich Meridian Time/Universal Co-ordinated Time) HAWAIIN TIME and ALASKAN TIME; by pushing the UP or DOWN BUTTON. Please refer to the **appendix** for the time zone setting of the various time zone areas. After setting the appropriate time zone, press and hold the TIME/CAL SET BUTTON until the display stopped flashing (*"setting complete"* will be announced) to end the setting mode.

Set the time and calendar manually
Since the unit works on receiving the time radio signal, there may be locations that the signal is weak and cannot be properly received. Under such circumstance, the radio signal mark will disappear to indicate that reception is failed. Try to rotate the unit or place it in other location to achieve better reception and re-start reception again. If finally, radio signal cannot be received, time should be set manually.

To set time and calendar manually, press and hold the TIME/CAL SET BUTTON until the year digits flash (*"setting year"* will be announced). Press the UP or DOWN BUTTON to set year.
-Press TIME/CAL SET BUTTON once. The month and date digits will flash (*"setting date"* will be announced). Press the UP or DOWN BUTTON to set. Each push of the UP or DOWN BUTTON will advance one day and the month will be changed when start or end of the month is run through.
-Press TIME/CAL SET BUTTON once. The digital map for the above time zones will flash (*"setting time zone"* will be announced). Set to the required time zone by pushing the UP or DOWN botton.
-Press TIME/CAL SET BUTTON once. The hour and minute digits flash (*"setting time"* will be announced). Press the UP or DOWN BUTTON to set. Each push of the UP or DOWN BUTTON will advance one minute and the hour will be changed when 00 minute is run through.
-Press TIME/CAL SET BUTTON once to end the setting mode (*"setting complete"* will be announced).

During setting, press and hold the UP/DOWN BUTTON and the corresponding digits will fast advance.

Note: when setting year, date, time zone or time, the corresponding digits will be announced.
e.g. Setting year to 2017: *"year two thousand and seventeen"* will be announced
Setting date to January 10th (Tuesday): *"Tuesday, January tenth"* will be announced.
Setting time zone to PACIFIC: *"pacific time"* will be announced.
Setting time to PM 2:30: *"two thirty PM"* will be announced.

Changing to standard time / daylight saving time
The unit will change to standard time/daylight saving time automatically, when the time signal is received. When time is change to daylight saving time, the "D.S.T" mark will be shown and time is adjusted automatically.

Set the alarm time
To start alarm time setting, press any one of the UP or DOWN BUTTON once. The alarm time digits flash (*"alarm set"* will be