



**DUAL ALARM AM/FM CLOCK RADIO  
WITH SmartSet™ AUTOMATIC  
TIME SETTING SYSTEM**



**FILE COPY**



**MODEL CKS2000  
CKS2005  
OWNER'S MANUAL**

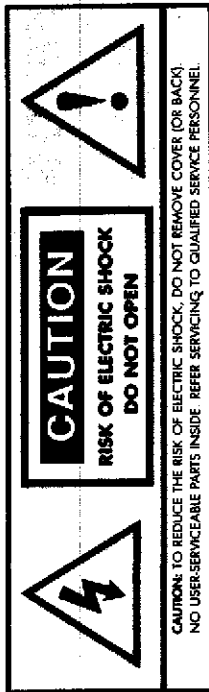
**PRINTED IN CHINA**

**EMERSON  
PART NO: 16-2735  
800-698-9020  
001-05**

Visit our web site at "[www.emersonradio.com](http://www.emersonradio.com)"

## IMPORTANT NOTES

- Avoid installing the unit in locations described below:
  - Places exposed to direct sunlight or close to heat radiating appliances such as electric heaters.
  - On top of other stereo equipment that radiates too much heat.
  - Places lacking ventilation or dusty places.
  - Places subject to constant vibration
  - Humid or moist places.
- Operate controls and switches as described in the manual.
- Before turning the power switch on for the first time, make certain the batteries and power cord are properly installed.



## DANGEROUS VOLTAGE

Uninsulated Dangerous Voltage, that may be of sufficient magnitude to institute a risk of electric shock to persons is present within this product's enclosure.



## ATTENTION

The Owner's Manual contain important operating and maintenance instructions. For you safety, it is necessary to refer to the manual.



**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

Your radio has a serial number on the back or bottom of the cabinet. We suggest you record the serial number and other useful information in the space below:

Serial No.: -----  
Purchased At: -----  
Purchase Date: -----  
Price Paid: \$ -----

## FCC INFORMATION

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

Thank you for purchasing this Emerson Research AM/FM Clock Radio with the advanced patent pending SmartSet™ System. You are now the owner of the world's first LED clock radio that sets itself to the correct year, month, date, day and time as soon as you plug it in. Never again do you have to face the dreaded "FLASHING 12:00" display which tells you that the clock needs to be reset — if you can remember how to set it, or remember where you put the instructions.

Never again will you arrive an hour late — or an hour early — because you forgot to adjust for Daylight Savings or Standard Time. And never again will you show up for a meeting on March 1st only to learn that today is actually February 29th.

The Emerson Research SmartSet™ clock radio makes all of these adjustments automatically. And the onboard computer is programmed to keep you on schedule through the year 2096.

Someday all clocks and clock radios will work this way. Thanks to Emerson Research, yours already does.

## PREPARATION FOR USE

- Remove the unit from the carton and remove all packing materials from the unit. Save the packing in case the unit ever needs to be returned.
- Remove the clear plastic label from the front panel of the radio but do not remove any labels from the back or bottom of the cabinet.
- Unwind the AC cord and extend it to its full length.
- Place the unit on a flat surface convenient to an AC outlet and away from sources of heat, dust, moisture, humidity and vibration.

## BATTERY BACK-UP SYSTEM

This Emerson Research SmartSet™ Clock Radio has a long life battery back-up system powered by a Lithium battery (Type CR2430) which was installed at the factory. This battery can provide back-up power for 5 to 8 years, depending on the frequency and length of power outages in your area.

If AC power is interrupted, the displays will go 'Off' and the radio will not operate. However, when AC power is restored, the displays will come back 'On' and the time display will be correct. The alarm settings will also be maintained.

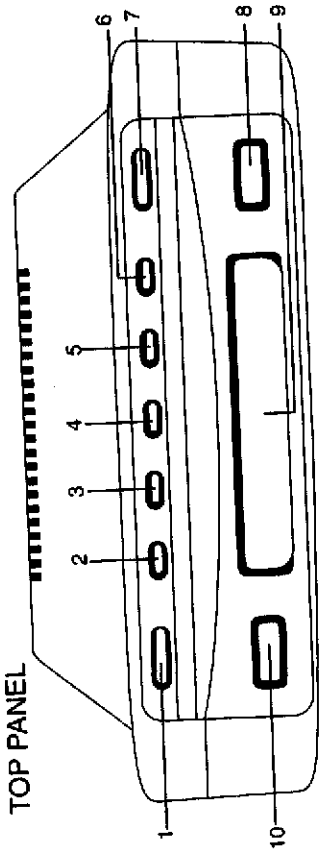
## LOW BATTERY INDICATOR

Years from now it may be necessary to replace the long life Lithium battery. When the battery voltage drops below a predetermined level, the "BATT LOW" indicator — located in the upper right corner of the calendar display — will come 'On'. When you see this indicator, it's time to change the Lithium battery. Refer to "Battery Replacement" found on page 11 of this Manual.

# LOCATION OF CONTROLS AND INDICATORS

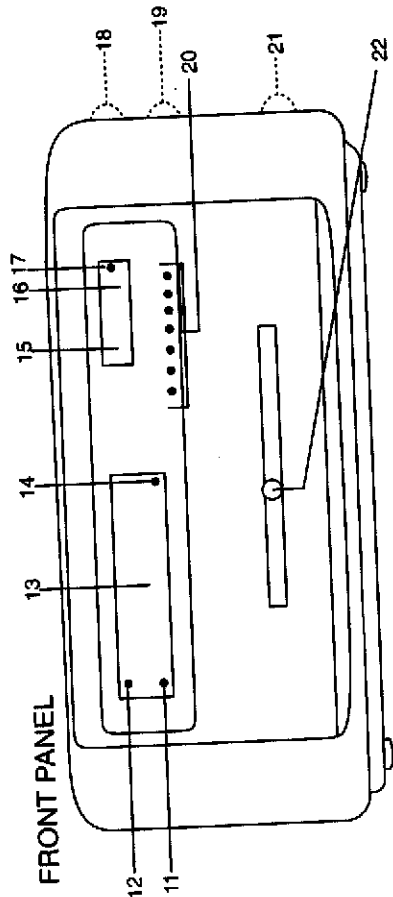
## TOP PANEL

1. Alarm 1 Adjust button
2. Alarm Mode Selector — Selects everyday, weekday, or weekend alarm modes
3. Down Button — Adjusts Time/Alarm Setting "DOWN" (Back)
4. Time Zone Button — Used to select the proper time zone
5. Up Button — Adjusts Time/Alarm Setting "UP" (Forward)
6. Time/Date Button — Used together with the "UP" and "DOWN" Buttons to adjust the Time and Calendar Settings
7. Alarm 2 Adjust Button
8. Radio On/Off Button
9. Snooze Bar
10. Sleep to Music Button



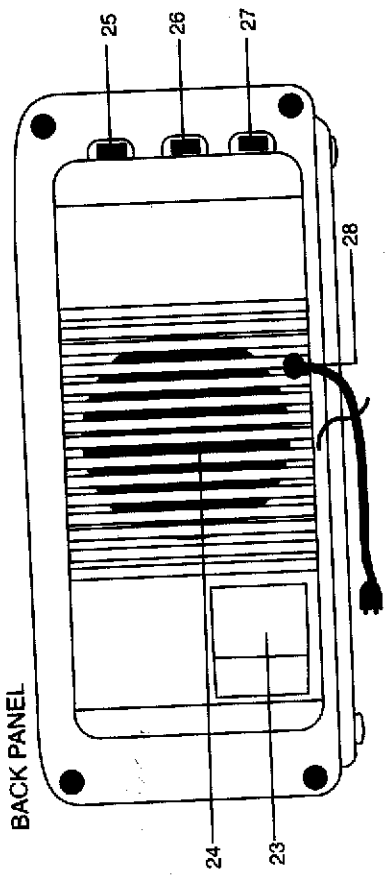
## FRONT PANEL

11. Alarm 1 "ON" Indicator
12. AM Indicator
13. Time Display
14. Alarm 2 "ON" Indicator
15. Month Display (Example "10" = OCTOBER)
16. Date Display
17. Low Battery Indicator
18. Volume Control
19. AM/FM Band Selector
20. Day of the Week Indicators (and Alarm Mode Indicators)
21. Tuning Control
22. Lighted Dial Pointer



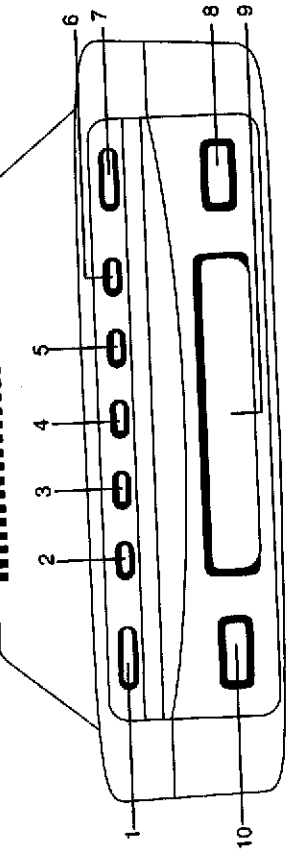
## BACK PANEL

23. Battery Compartment Door
24. Speaker
25. Alarm 1 Selector (Radio/Buzzer/Off)
26. Alarm 2 Selector (Radio/Buzzer/Off)
27. Display Dimmer Switch (High—Low)
28. AC Power Cord (with built-in FM Antenna)

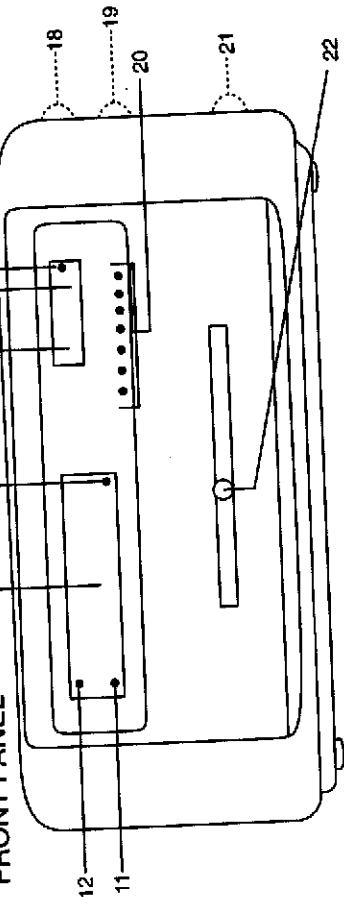


# LOCATION OF CONTROLS AND INDICATORS

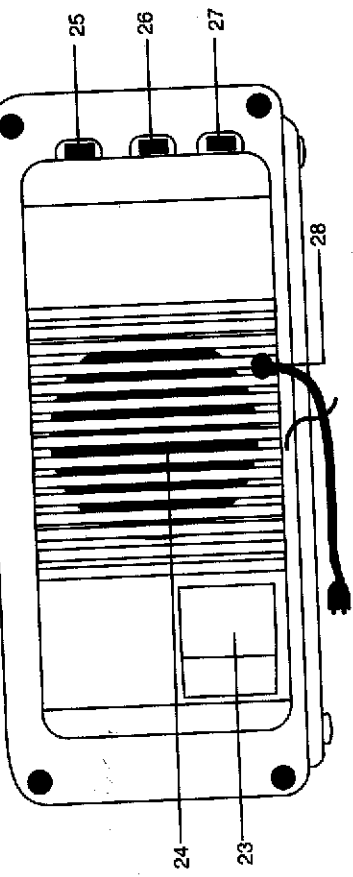
## TOP PANEL



## FRONT PANEL



## BACK PANEL



## OPERATING INSTRUCTIONS

### ABOUT THE SMARTSET™ CLOCK

The SmartSet™ Clock can display the time in 7 different zones, all the way from Puerto Rico (Atlantic Time) to Hawaii (Hawaiian Time).

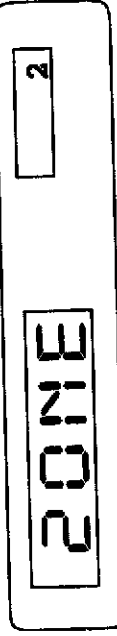
The zones are numbered as follows:

- Zone 1 — Atlantic Time
- Zone 2 — Eastern Time
- Zone 3 — Central Time
- Zone 4 — Mountain Time
- Zone 5 — Pacific Time
- Zone 6 — Yukon Time (Alaska)
- Zone 7 — Hawaiian Time

The onboard computer chip in the SmartSet™ Clock has been pre-set at the factory for "Zone 2", Eastern Time. Even though the displays are "Off" when you unpack this clock radio, the SmartSet™ Clock is pre-programmed and ready to display the correct time, month, date and day, as soon as you plug the cord into your AC outlet.

### SETTING THE CLOCK FOR THE FIRST TIME

- Unwind the AC Power cord completely and insert the plug into a 120V AC 60Hz normal household outlet. NOTE: Do not connect to an outlet which is controlled by a wall switch.



- As soon as power is connected the displays will show:

If you live in "ZONE 2", the Eastern Time Zone, it is not necessary to change the zone number. Just press the "TIME ZONE" button once and the displays will begin to run. Within just a few seconds the correct Time, Month, Date and Day of the Week will appear on the display. It's as easy as that.

If you live in another time zone hold the "TIME ZONE" button and press either the "DOWN" or "UP" buttons to select the proper Zone as follows:

- Zone 1 — Atlantic Time
- Zone 3 — Central Time
- Zone 4 — Mountain Time
- Zone 5 — Pacific Time
- Zone 6 — Yukon Time (Alaska)
- Zone 7 — Hawaiian Time

When your Zone number appears in the Month/Date Display, release the buttons. The displays will begin to run. Within a few seconds the correct Month, Date, Day and Time will appear on the displays.

### MINOR TIME ADJUSTMENTS

The SmartSet™ Clock is as accurate as any AC operated clock or clock radio and normally no adjustments of the time are necessary. However, over long periods of time it is possible for the clock to gain or lose a few seconds. If you are accustomed to setting your clock with a time tone on the radio and your SmartSet™ Clock is showing "7:59" when the radio announces "8:00 o'clock", you can easily adjust the time display if desired. Simply press and hold the "TIME/DATE" button and press either the "UP" or "DOWN" buttons to adjust the display. Each press of the "UP" or "DOWN" button will add or subtract one minute from the display.

### DAYLIGHT SAVING TIME AND LEAP YEAR

The onboard computer in the SmartSet™ clock radio will automatically adjust the clock at the beginning and end of daylight saving time each year. It will also adjust the month/day display for leap years automatically. These automatic adjustments are programmed through the year 2096.

### IMPORTANT NOTICE

Daylight Saving Time is **NOT** observed in Hawaii, American Samoa, Guam, Puerto Rico, the Virgin Islands, the Eastern Time Zone portion of the state of Indiana, and in most of Arizona (with the exception of the Navajo Indian Reservation in Arizona).

The SmartSet™ Clock Radio automatically advances by one hour at the start of Daylight Saving on the first Sunday in April, and automatically moves back by one hour at the end of Daylight Saving on the last Sunday in October. If you live in an area that does not observe Daylight Saving, it will be necessary for you to manually adjust the clock back one hour at the beginning of Daylight Saving and forward one hour at the end of Daylight Saving.

### DISPLAY BRIGHTNESS CONTROL

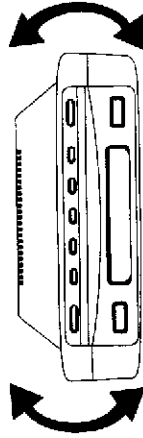
If the SmartSet™ Clock Radio is placed on a nightstand very close to the bed, you can reduce the brightness of the display if necessary. Set the "DIMMER" switch (located on the back panel) to the 'Lo' position.

## LISTENING TO THE RADIO

1. Press the "RADIO ON/OFF" button to turn the radio 'On'. The dial pointer light comes on.
2. Set the "BAND" selector switch to AM or FM.
3. Tune to the desired station with the "TUNING" control.
4. Adjust the "VOLUME" control as necessary.
5. When you are finished listening, press the "RADIO ON/OFF" button again to turn the radio 'Off'. The dial pointer light goes off.

## HINTS FOR GOOD RADIO RECEPTION

The FM antenna is built into the AC power cord. If FM reception is weak change the direction of the power cord until you find a position that provides better reception. The AM Antenna is inside the cabinet. If AM reception on a particular station is weak, rotate the entire radio slightly until reception improves.



Rotate to find strongest AM reception.

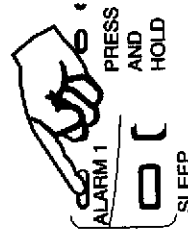
## ALARM OPERATION

Your Emerson Research SmartSet™ Clock Radio has dual alarms that can be set and used independently. You can set either alarm to wake you to radio or an alarm tone. In addition both alarms can be set for weekdays only, weekends only, or everyday operation.

## ADJUSTING THE WAKE UP TIME AND WAKE UP MODE

**NOTE:** The procedure is the same for both alarms.

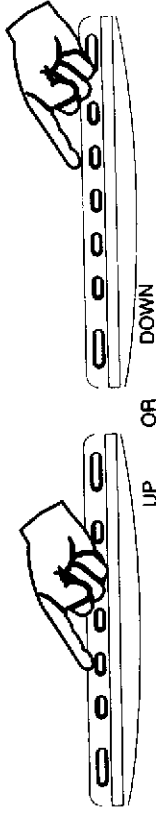
1. Press and hold the "ALARM 1" button.



The display changes from current time to Alarm 1 wake up time, and the day indicators show which mode has been selected as follows:

MODE	DAY INDICATOR						
	SUN	MON	TUE	WED	THU	FRI	SAT
WEEKEND MODE	☀	○	○	○	○	○	☀
WEEKDAY MODE	○	☀	☀	☀	☀	☀	○
EVERYDAY MODE	☀	☀	☀	☀	☀	☀	☀

2. While holding the "ALARM 1" button, depress the "DOWN" or "UP" buttons to adjust the display to the desired wake up time.



**IMPORTANT:** Be sure to set the wake up time correctly for AM or PM. If the AM indicator is on, the time on the display is "AM".  
**NOTE:** When you hold the "DOWN" or "UP" buttons the display begins to change slowly and then moves faster. If you pass the desired wake up time, release the "UP" or "DOWN" button and then just tap either button to move the display up or down one minute at a time.

3. Hold the "ALARM 1" button and press the "ALARM MODE" button to select the desired mode. When all 7 day indicators are 'On' the alarm will operate everyday. If Mon - Fri indicators are 'On' but Sat - Sun are 'Off', the alarm will operate on weekdays only. If only Sat - Sun indicators are 'On' the alarm will operate on weekends only. Pressing the "Alarm Mode" button repeatedly will cycle the display through the weekend/weekday/everyday modes.

4. When the display shows the desired wake up time and wake up mode, release the "ALARM 1" button. The display changes back to current time. **NOTE:** You can reconfirm the Alarm 1 settings at any time by pressing the "ALARM 1" button. The display will show the Alarm 1 settings while the button is pressed, and return to current time when the button is released.

5. After adjusting the Alarm 1 wake up time and mode you may also adjust Alarm 2 if desired. Simply repeat steps 1 through 4 pressing the "ALARM 2" button instead of the "ALARM 1" button.

## SETTING THE ALARMS

If necessary adjust the wake up times and wake up mode as described above.

## Wake to Radio

1. Turn radio 'On' and select the band, station and volume setting that you want to hear at your wake up time. Turn radio 'Off' again.
2. Set the "ALARM 1" and/or "ALARM 2" selector switches (located

on the back panel) to the 'Radio' position. The Alarm 1 and/or Alarm 2 indicators will turn on confirming that the alarms are set.

- At the selected wake up time the radio will come on. It will play for one hour and then shut off automatically and reset itself for the following day (depending on the wake up mode you selected — if you selected weekday only mode and today is Friday, the alarm will not come on again until Monday).

- To stop the radio sooner press the "ALARM 1" (or "ALARM 2") button or the "radio ON/OFF" button. The radio stops but the Alarm 1 (or 2) indicator remains on and the alarm is reset for the following day.
- To cancel the alarm completely, set the "ALARM 1" and/or "ALARM 2" selector switches to the 'Off' position. The Alarm 1/Alarm 2 indicators go 'Off'.

#### Wake to Alarm

- Set the "ALARM 1" and/or "ALARM 2" selector switches to the 'Buzz' position. The Alarm 1 and/or Alarm 2 indicators will come on.
- At the selected wake up time an electronic tone alarm will come on.
- To stop the alarm sound press the "ALARM 1" (or "ALARM 2") button. The sound stops but the alarm indicators remain 'On' and the alarm resets for the following day. If you do not stop the alarm, the sound will continue for one hour and then reset itself automatically. To cancel the alarms slide the alarm selector switches to the 'Off' position.

**NOTE:** If you want to listen to radio as soon as the alarm wakes you up, you do not have to press the 'Alarm 1' or 'Alarm 2' buttons to stop the buzzer alarm. Just press the 'Radio ON/OFF' button. The buzzer stops and the radio begins to play.

#### SNOOZE CONTROL

After either alarm sounds you may press the "SNOOZE" bar for an extra 9 minutes sleep if desired. The alarm stops for 9 minutes and the alarm indicator flashes. After 9 minutes the alarm sounds again and the indicator stops flashing. Snooze operation may be repeated several times if necessary.

#### SLEEP TO MUSIC TIMER

Press the "SLEEP" button to activate the sleep to music timer. The radio will turn on and the displays will show —



— indicating that the radio will play for 10 minutes before shutting off automatically.

To increase or decrease the amount of time the radio will play before auto shutoff, hold the "SLEEP" button and press the "UP" or

"DOWN" buttons until the desired amount of time appears on the display, then release the buttons. The maximum sleep time is 90 minutes. When the timer counts down to "0" the radio will shut off. To stop the radio sooner, press the "SNOOZE" bar. Pressing "SNOOZE" cancels the sleep timer.

**IMPORTANT:** Remember that the station and volume you use with the sleep timer will be the same settings you hear when the wake to radio alarm sounds in the morning. If you set the volume to a very soft level for sleep to music you will hear this same soft level when the alarm comes on in the morning.

#### BATTERY REPLACEMENT

The long life lithium battery which was installed in the radio at our factory, can last for many years. However, the battery life for each individual radio will be determined by the length of time between the date the battery was installed at our factory and the date that you plugged in the radio for the first time. During that time, the lithium battery was maintaining the clock memory. Once you connect the power cord to your AC outlet, the battery is bypassed and only serves as the backup power supply.

The second factor which affects the battery life is the frequency and length of the power interruptions which occur in your home. If the power is interrupted frequently and the interruptions are of long duration, the battery life will be shorter than it would be in homes where the power is rarely interrupted. When the low battery indicator (BATT LOW) appears in the month/date display, you should replace the battery as soon as it is practical to do so.

**Very Important: In order to avoid total memory loss and having to reset the clock, the radio should be connected to the AC outlet while the battery is being changed.**

When the low battery indicator appears, the first thing to do is to purchase a new "button type" lithium battery, Type CR2430 or equivalent, wherever batteries are sold. Remove the battery from the package so it is ready to be inserted in the radio before you begin the battery replacement procedure.

#### HOW TO REPLACE THE BATTERY

**NOTE:** Make sure the clock radio is connected to the AC outlet when you change the battery.

#### PREPARATION

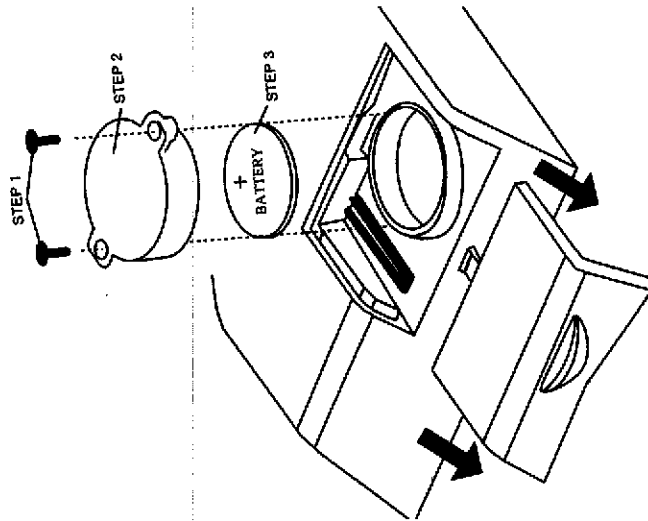
**A:** Have a fresh replacement battery (Type CR2430) out of its package and ready for installation.

- B:** Place the radio face down on a flat surface such as a table. Place a soft cloth under the radio. This will prevent scratches on the front lens of the radio and also help to prevent you from losing the small screws that must be removed when changing the battery.
- C:** Remove the battery door by pressing down on the arrow mark and sliding the door in the direction of the arrow. Following the diagram below, complete steps 1-6.

1. Carefully remove the two screws which secure the battery cap. Turn counter-clockwise to remove. Be careful not to lose the screws.
2. Remove the battery cap.
3. Remove the old battery. Use the tip of the screwdriver or a paper clip to lift the battery if necessary.

**NOTE:** Dispose of the old battery properly. **DO NOT** allow children or pets to play with, or swallow it. Refer to the warnings on the new battery packaging.

4. Install the new battery in the compartment with the "+" sign facing up. Make sure that it is fully seated at the bottom of the compartment.
5. Replace the battery cap. Turn the two screws clockwise to tighten.
6. Replace the battery door.



## RESETTING THE CLOCK

### AFTER TOTAL MEMORY LOSS

If you have followed the battery replacement procedure correctly, it will probably never be necessary for you to reset the clock. Under normal circumstances the only occasion to completely reset the clock is if the lithium battery is completely exhausted and the radio is not connected to the AC power supply.

If the radio is not connected to AC power when the lithium battery fails, all clock memory will be erased and must be reset.

When you connect the radio to AC power, again, the display will show:



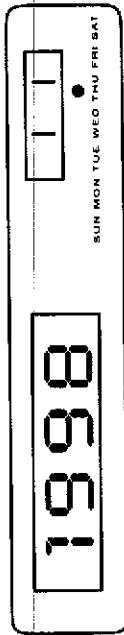
ZONE 2 is the Eastern time zone. If you live in a different zone, depress the time zone button and the up or down buttons to select the appropriate zone as follows:

- Zone 1 — Atlantic Time
- Zone 2 — Eastern Time
- Zone 3 — Central Time
- Zone 4 — Mountain Time
- Zone 5 — Pacific Time
- Zone 6 — Yukon Time (Alaska)
- Zone 7 — Hawaiian Time

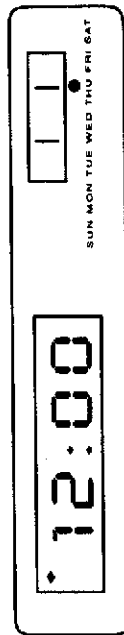
Release the buttons when your zone number appears in the display.

**NOTE:** If you are in Zone 2, Eastern Time, do not press the up or down buttons, just press and release the "TIME ZONE" button once.

The display will first show:



and then show:



This confirms that the time memory was erased and needs to be reset. Remember that you must reset the year, month, date and time. The day of the week is automatically set according to the month and date.

Your starting point is 12:00 A.M., January 1st, 1998.

- Depress and hold the "TIME/DATE" and "UP" buttons.
- The "Minutes" digits begin to advance slowly at first, and then advance rapidly.
- When 60 minutes have passed, the "Hours" digits begin to advance slowly, then rapidly.
- When 24 hours have passed, the "Date" digits begin to advance slowly, then rapidly.
- When 31 days have passed the "Month" digits begin to advance slowly, then rapidly.
- When you pass December 31st (12 31) the time display will show the year - example 1999. The year will remain on the display until you release the Time/Date and Up buttons.

- Since the display will change very quickly, keep your eyes on the Month/Date display and try to get as close as possible to the correct month and date. Then depress the "UP" button to start the Minutes/Hours/Day and Months moving again. If you pass the correct month and date, press the "TIME/DATE" and "DOWN" buttons to back up.
- When the display shows the correct Month/Date and Day, press the "TIME/DATE" and "UP" and "DOWN" buttons to set the display to the correct time.

**NOTE:** Be sure to set the time correctly for A.M. or P.M.. If the AM indicator is 'On' the time displayed is "AM".

Finally, after you have reset the correct year, month, date and time, don't forget to reset one or both of the alarms, if necessary.

### CARE AND MAINTENANCE

There are no user serviceable parts inside the unit. Do not attempt any adjustments other than those described in this manual. Refer all other problems to qualified service personnel.

If the cabinet becomes dusty, wipe it with a soft dust cloth. If the cabinet becomes smudged or dirty, clean it with a soft, slightly dampened cloth. Never allow water or any liquid to get inside the cabinet. Never use any abrasive cleaners or cleaning pads as these will damage the finish of your radio.



TO FIND THE LOCATION AND PHONE NUMBER OF YOUR NEAREST SERVICE CENTER PERMITTED TO PERFORM WARRANTY SERVICE...

CALL TOLL FREE: 1-800-695-0098

FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE PLEASE CALL:  
1-800-898-9020

FOR CUSTOMER SERVICE, PLEASE WRITE TO:  
Emerson Radio Corp.  
Consumer Affairs Dept.  
1901 Diplomat Drive,  
Farmers Branch, TX 75234

## EMERSON RADIO CORP. LIMITED WARRANTY

- **What does this warranty cover?** Any manufacturing defects in original material, including original parts and workmanship, under normal use and conditions.
- **For how long?** For a period of ninety (90) days from the date of original purchase in the U.S.
- **What will we do?** If you need service under this warranty, and you provide us with the dated proof of purchase, we will provide repair service at no charge for labor and parts at an authorized Depot Repair Facility, or replace the product in our discretion.
- **How do you make your warranty claim?** If it becomes necessary to repair your unit, you can obtain the name and mailing location of a Depot Repair Facility by dialing 1-800-695-0098. You should pack your unit in a well-padded heavy corrugated box, enclose your check or money order payable to the Depot Repair Facility in the amount of \$9.00 to cover the return shipping and handling costs, and enclose a copy of your proof of purchase (warranty service will not be provided without a dated proof of purchase). Finally, you should ship the unit prepaid via UPS or parcel post (insured).
- **What does your warranty not cover?** Your warranty does not cover the following:
  - Damage from negligence, misuse, abuse, accident, or failure to follow operating instructions.
  - Use of product in a commercial application or rentals.
  - Changes or repairs by anyone other than an authorized Depot Repair Facility.
  - Damage because your unit is improperly connected to the equipment of other manufacturers.
  - Units on which the serial number has been defaced, modified or removed.
  - Damage to equipment not properly connected to the product.
  - Cost incurred in shipping your unit to and from an authorized Depot Repair Facility.
  - Ordinary adjustments which you can perform as outlined in the owner's manual.
  - Signal reception problems caused by external antenna or cable systems.
  - Products purchased, used, serviced or damaged outside of the United States.
  - Damage to compact discs or cassettes

- **What other limitations apply to your warranty?** THIS WARRANTY IS NON-TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO SUBSEQUENT OWNERS OF THE PRODUCT. THIS WARRANTY IS VALID ONLY IN THE UNITED STATES OF AMERICA. ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING THE WARRANTY AS PROVIDED ABOVE BEGINNING WITH THE DATE OF ORIGINAL PURCHASE AT RETAIL AND NO WARRANTIES, WHETHER EXPRESSED OR IMPLIED, SHALL APPLY TO THE PRODUCT THEREAFTER. WE MAKE NO WARRANTY AS TO THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE OR USE.
- THE EXTENT OF OUR LIABILITY UNDER THIS LIMITED WARRANTY IS THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND IN NO EVENT WILL OUR LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL WE BE LIABLE FOR ANY LOSS, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGE ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT.

- **How does state law apply to your warranty?** THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, BUT YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES OR EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE, SO THESE RESTRICTIONS MAY NOT APPLY TO YOU.

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