

# DUAL ALARM DIGITAL LED CALENDAR CLOCK

WITH BATTERY-SENTINEL™ FEATURE



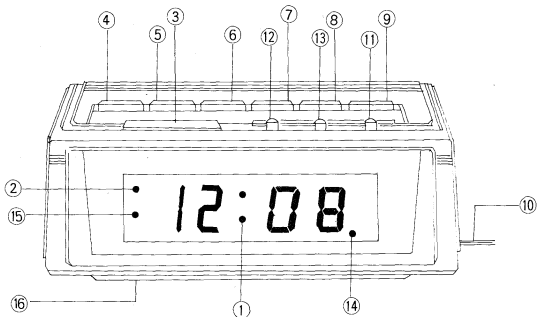
## OWNER'S MANUAL

PLEASE READ BEFORE  
USING THIS EQUIPMENT

MICRONTA®

CUSTOM MANUFACTURED FOR  
RADIO SHACK, A DIVISION OF TANDY CORPORATION

Cat.No.  
63-776



## CONTROLS AND INDICATORS

1. CLOCK DISPLAY
2. PM indicator
3. SNOOZE/CALENDAR/SENTINEL Bar
4. HOUR/MONTH button
5. MIN/DATE button
6. TIME SET button
7. ALARM SET HIS button
8. ALARM SET HERS button
9. ALARM OFF button
10. AC POWER CORD
11. DIMMER HI LO switch
12. ALARM HIS ON OFF switch
13. ALARM HERS ON OFF switch
14. ALARM On indicator
15. BATTERY SENTINEL indicator
16. Battery Compartment (on the bottom)

## SPECIFICATIONS

- Display Type : LED
- Time Base : 60 (or 50) Hertz  
(AC utility company power)
- Display Size : 0.7 inch
- Power requirement : 120V AC, 60Hz, 5 watts.  
(220 / 240V, 50 Hz for  
European/Australian models)
- Operating Temperature : 0°C to 50°C (32°F to 122°F)
- BATTERY BACK UP : Stand by current 10 $\mu$ A, the  
BATTERY SENTINEL will  
light if battery voltage drops  
below 8V  $\pm$  0.3V  
: Use one 9.0V Extra-Life  
battery (Radio Shack's 23-  
583) to assure full battery  
back-up for 8-12 months.

## WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS CLOCK TO RAIN OR MOISTURE. Your new MICRONTA Electronic LED Dual-Alarm Clock is a precision-made, solid-state time-keeping instrument.

The time-keeping circuitry is a miniature solid-state counter built with the most advanced MOS LSI technology which will provide you with split-second accuracy. The four-digit LED display is designed for optimum readability under all viewing conditions.

## **FEATURES**

### **Battery Back-up with BATTERY SENTINEL™**

When you press the SNOOZE/CALENDAR/SENTINEL Bar, if a glowing dot appears at the lower left, this is your warning that the back-up battery is too weak to maintain adequate power back-up in case of an AC power failure. (Requires an Extra-Life battery installed in Battery Compartment on the bottom.)

### **SNOOZE/SENTINEL LED Indicator**

Press and hold the SNOOZE /CALENDAR/SENTINEL bar. The LED will be on only if the battery is weak. LED will be off when the button is released. Replace with a fresh new battery.

## **CALENDAR**

Your clock shows you the month and date with just a touch of the SNOOZE/CALENDAR/SENTINEL Bar.

## **DUAL ALARMS**

Let you set two different wake-up times – one for Him, one for Her.

### **Power Failure Warning (Without Battery Back-up)**

An important feature of your Clock is the ability to signal an incorrect time display due to a power supply interruption (if you don't have a back-up battery installed). When this happens, the entire display will flash on and off (and Alarm may sound), warning that the displayed time is incorrect. Follow the procedure outlined under "SETTING THE TIME" to reset your Clock (and also reset Alarm time).

### **P.M. Indicator LED**

A glowing dot appears in the upper left hand corner of the display indicating that the time shown is P.M.

### **ALARM-ON Indicator LED**

A glowing dot appears in the lower right hand corner of the display indicating that the alarm has been set.

## **OPERATION**

Plug the Power Cord into a standard 120V AC outlet (220/240V 50Hz for European models). The entire display will begin to flash. This is normal until you set the Time. Open the Battery Compartment on the bottom of the unit and install a 9-volt battery. (To assure full Battery Back-up, we recommend using only the Extra-Life type, Radio Shack's 23-583.)

## **SETTING THE TIME**

1. Move ALARM ON OFF switches to the "OFF" position.
2. Press and hold TIME SET button while pressing the HOUR / MONTH button to advance the hours display. Be sure to set AM or PM correctly.
3. Press and hold TIME SET button while pressing MIN/DATE button to advance the minutes display. If you want to advance the minutes more rapidly, press HOUR/MONTH MIN/DATE, and TIME SET buttons simultaneously.

## **SETTING THE ALARM**

1. Set the ALARM ON OFF selectors to the "OFF" position.
2. Press and hold ALARM SET HIS button while pressing HOUR/MONTH button for the desired hour. Be sure to set AM or PM correctly.
3. Press and hold ALARM SET HIS button while pressing MIN/DATE for the desired minute. For faster minute advance, press buttons simultaneously.
4. Place ALARM HIS ON OFF selector to the "ON" position. The ALARM On indicator will light showing that the alarm will sound at the preset time.

5. To set ALARM HERS, follow the above ALARM HIS procedure but using ALARM SET HERS button and ALARM HERS ON OFF selector.
  6. A pleasant Alarm tone will sound at the pre-set time for up to a 1 hour period or until turned off.
- NOTES: To display the alarm set time, press and hold ALARM SET HIS or ALARM SET HERS button.

## **ALARM OFF CONTROLS**

You have the choice of three controls to turn off the alarm sound:

1. Press SNOOZE / CALENDAR / SENTINEL bar and the alarm sound will be off for 10 minutes. The Snooze operation can be repeated for up to a period of 1 hour.
2. Press ALARM OFF button and either HIS or HERS alarm sound will be turned off for 24 hours. The ALARM will automatically be turned on the next day at the preset time.
3. Slide ALARM HIS ON OFF or ALARM HERS ON OFF selector to the "OFF" position. This will turn the alarm off and will not turn on again until you set ALARM HIS or HERS ON OFF switch to ON position.

## **SETTING THE CALENDAR**

1. Press and hold the SNOOZE/CALENDAR/SENTINEL bar while pressing the HOUR/MONTH button to set month.
2. Press and hold the SNOOZE/CALENDAR/SENTINEL bar while pressing the MIN/DATE button to set the date. Pressing buttons simultaneously will advance date at a faster speed.
3. Press SNOOZE/CALENDAR/SENTINEL bar whenever you want to check the Month and Date.

**NOTE:** The calendar only has to be reset for one day every four years, on the 29th of February. Do this manually.

## **DIMMER**

The DIMMER HI LO switch is used to control the brightness of the clock display.

## **INTRODUCING THE BATTERY BACK-UP WITH BATTERY SENTINEL™ FEATURE**

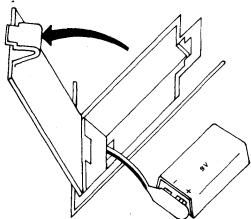
Incorporated into your new RADIO SHACK Clock is a Back-up power system to insure continuous operation of the clock and alarm in the event of a power failure. The transfer from AC to Battery power supply (and reverse) is automatic and instantaneous. The clock display is not illuminated under Battery power supply (but the clock maintains the time).



This system operates on a 9-volt battery (not included). We recommend that you use a heavy duty/Extra-Life battery to insure maximum performance of this important feature. Look for an Extra-Life battery (23-583) in your nearest RADIO SHACK stores.

With the use of a fresh Extra-Life 9-volt battery, this back-up power system will insure continuous operation of the clock for at least 8 Hours and then at least 10 minutes of Alarm signal.

To install battery, lift up the Battery Compartment Cover on the bottom of the unit. Snap the battery contacts over the battery. Position battery inside the compartment and replace the Compartment Cover. To prevent unnecessary drain of the battery, install the battery AFTER AC Power has been connected. There is a Red Battery Sentinel LED Indicator located on the front of the unit . . . . . As a battery tester, the LED indicator will light immediately if a bad battery is inserted. The capacity and strength of the battery can be checked whenever the SNOOZE/CALENDAR/SENTINEL Bar is pressed.



To obtain an instant, momentary battery test, press and hold the SNOOZE/CALENDAR/SENTINEL Bar for 1 – 2 seconds. The SENTINEL LED indicator will light if the battery is weak (replace battery as soon as possible). If the battery is in good condition, the BATTERY SENTINEL will not light. (We suggest that you check the condition of the battery once a week.)

You should be aware that it is possible for the Red LED to light when you press the SNOOZE/CALENDAR/SENTINEL Bar and yet go out when you release the Bar.

This does not mean that the battery is Ok, it is your warning that the battery capacity is very limited. You should replace the battery as soon as possible.

To insure full Battery Back-up protection, we urge you to replace the battery once every 6 months (especially if a significant power failure should occur). Be sure to use only a fresh battery; also, it's a good idea to keep an extra fresh battery on hand.

If you're not going to use the Clock for an extended period of time (such as when you're moving), be sure to remove the battery from the compartment, to prevent the battery from running down and possibly damaging the circuitry due to leakage of battery chemicals. (Remember that the battery power is being used whenever power is off, such as when the power cord is disconnected.)

If you have a long power failure, you may need to make a slight adjustment of clock time after AC power returns. (The Clock uses an internal battery powered clock circuit which is less accurate than the power line frequency.) Just follow the TIME SET instructions; the Alarm time will remain correct.

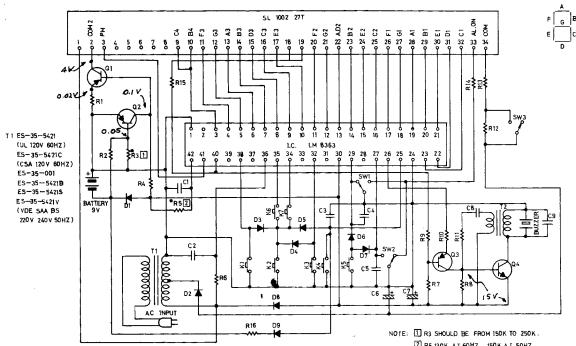
Note that this BATTERY SENTINEL LED Indicator will light whenever a battery is not in place.

**NOTE:** This Battery Back-up feature allows you to move your Clock to another room without having to reset the time (providing you have a battery installed).

## **CARE AND CAUTION**

To prevent electric shock, do not attempt to disassemble or open the cabinet. This unit does not contain customer serviceable parts. Do not use solvent cleaners on the display window. To avoid damaging the surface, never use a polish or strong cleaning agent on the cabinet. Best results are obtained with a soft cloth dampened with water only (BE SURE POWER CORD IS UNPLUGGED).

Do not expose your clock to extreme heat (near a hot radiator or stove). High temperatures associated with these conditions may damage the cabinet as well as the components inside.



- T1 ES-35-5421  
(UL 120V 60HZ)
- ES-35-5471C  
(CSA 120V 60HZ)
- ES-35-001
- ES-35-5421B
- ES-35-5421S
- ES-35-5421V  
(VDE 3AA B5  
220V 240V 50HZ)



## RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 1 year 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.

**EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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

*We Service What We Sell*

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