

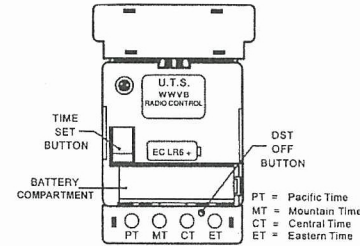
SPC960 IM - 5/25/10

SHARP® Instruction & Warranty

Thank you for your purchase of this quality clock. The utmost care has gone into the design and manufacture of your clock. Please read these instructions carefully and store them in a safe place for future reference.

FEATURES:

- Extremely accurate radio controlled movement
- Large, easy to read dial
- Time adjusts automatically each day
- Optional manual setting controls
- 4 Time Zones: Pacific Time (PT), Mountain Time (MT), Central Time (CT), and Eastern Time (ET)



HOW A RADIO CONTROLLED (ATOMIC) CLOCK WORKS:

A radio controlled clock, or "Atomic" clock, is a clock that is capable of receiving the time signal transmitted by the National Institute of Standards and Technology (NIST) in Fort Collins, Colorado. This time signal is transmitted based on the very precise timekeeping of the cesium Atomic clock. This clock is accurate to within ten billionths of a second per day. The Atomic clock uses special electronic equipment to measure the oscillations of Cesium atoms which are very stable and unaffected by environmental or temperature changes.

The NIST constantly broadcasts the Atomic clock time signal using a low frequency radio transmission similar to an AM radio. Each radio controlled clock has a small radio receiver built in which seeks out this signal daily and adjusts the clock time setting. Recent improvements in the strength of the NIST radio signal have made this technology practical of home and office use. The signal transmitted by the NIST is strong enough to reach the entire continental United States and parts of southern Canada and northern Mexico.

LOCATING YOUR CLOCK FOR THE BEST RECEPTION

Generally the best reception occurs when the clock is located near a window and if possible facing in the direction of Fort Collins, Colorado.

- Do not place the clock too close to household appliances such as Televisions, computers, speakers, VCR's, Fax Machines, or similar electronic devices.
- Do not place on top of or close to metal surfaces.
- Do not place in a metal or concrete building unless close to a window with the curtains or other window treatment open.
- Poor signal reception may occur due to close proximity to mountains, tall buildings, power lines, airports, traffic lights and electrical storms between your location and Fort Collins, Colorado.

START THE CLOCK

1. Install one fresh AA battery (alkaline recommended) into the battery compartment on the back of the clock with polarities as indicated. **DO NOT** use a rechargeable battery in this clock.
2. Press the time zone button on the back of the clock which corresponds to the time zone in which you are located. US Time Zones: **PT**-Pacific, **MT**-Mountain, **CT**-Central and **ET**-Eastern.

NOTE: The time zone can be set or changed at any time after the battery has been installed. If no buttons are pressed, the clock will default to the Pacific Time zone (PT). If more than one button is pressed, the clock will set the time zone to the last button pressed.

AUTOMATIC TIME SETTING

1. After inserting the battery, the second hand will make one revolution and stop. The clock will remain stopped and then begin searching for the time signal.
2. If the clock is able to receive the time signal, it will automatically set the hands to the exact time.
3. If the clock does not receive the time signal within 5 minutes it will fast forward the hands to 4, 8, or the 12 o'clock position. The clock will remain stopped and will continue to search for the time signal every hour.

CAUTION ABOUT SIGNAL RECEPTION

If your clock does not immediately receive the time signal, do not be alarmed. This is probably due to poor reception, and normally this is a temporary condition. Generally the best reception is during the nighttime hours when normal interference with the radio signal is minimized. If the clock does not receive the signal within 24 hours you may need to relocate your clock to a position with better signal reception.

MANUAL TIME SETTING

If your clock does not automatically set itself within 24 hours after inserting the battery, it is probably due to poor

signal reception. Your clock may need to be moved to another location where there is better signal reception. The best signal reception occurs at night between the hours of 11:00 PM and 5:00 AM. You may wish to set the time manually, and then allow the clock to automatically receive the time signal when reception conditions improve. To set the clock manually, follow the below instructions:

NOTE: Only use the manual setting option if, after a few days, you are unable to receive a WWVB signal.

- Press and hold the **TIME SET BUTTON** on the back of the movement continuously to set the manual time. Your clock is now working as a quartz clock and is not searching for the WWVB signal. **It is important to hold down the button for more than 2 seconds during this time**, or your clock will automatically return to the **RADIO CONTROL MODE** to begin searching for a WWVB signal again.
- If at any time your clock automatically advances to 4:00, 8:00 or 12:00, it has entered the **RADIO CONTROLLED MODE** and is searching for the WWVB signal.
- If you are trying to manually set your clock and have accidentally returned to the **RADIO CONTROL MODE**, you must remove the battery, wait 3 minutes, and then reinsert the battery. The clock will advance to 4, 8, or 12 and allow you to use the **MANUAL SET BUTTON**.

There are 2 ways to return to **RADIO CONTROL MODE** if your clock is manually set:

- Remove the battery, reinsert it after 3 minutes, and start the clock again.
- Press the **MANUAL SET BUTTON** for more than 3 seconds. The hands will move to the 4:00, 8:00, or 12:00 o'clock position and begin searching for a WWVB signal.
 - After a successful WWVB signal is established, your clock will be set automatically and work as a radio controlled clock.
 - If reception of the WWVB signal is not possible, your clock will switch back to the **QUARTZ MODE** after 10 minutes and show the quartz time. This movement is now functioning as a quartz clock and will not attempt to receive the WWVB signal again, unless you remove the batteries or press the **TIME SET BUTTON** again as described above.
- It is not possible to manually set the time if your clock has automatically set itself.

DAYLIGHT-SAVINGS TIME ADJUSTMENT

Adjustments for daylight-savings time and standard time are made automatically. However, if you live in an area that does not adjust for daylight-saving time, press the **DST OFF BUTTON** located on the back of the clock. This will turn off the daylight-savings time feature. If you accidentally press the **DST OFF BUTTON**, just press it again to turn the daylight-saving time feature back on.

BATTERY REPLACEMENT

When replacing the battery, follow the instructions for starting your clock. **NOTE: Any time the battery is removed or replaced in the clock, you will need to reselect your time zone. Also if you live in an area that does not observe daylight-savings time, you will need to press the DST OFF BUTTON again.**

CARE OF YOUR CLOCK

Replace the battery annually or whenever the clock loses its ability to sense the radio signal while in its normal place in your home or office. Store the clock without a battery when not in use. A soft cloth or a paper towel may be used to clean your clock. Do not use any corrosive cleanser or chemical solutions on the clock. Keep the clock clean and dry to avoid any problems.

**For Customer Service
Please Call Toll Free
at 1-(800)-221-0131
and ask for
Customer Service.
Monday-Friday
9:00 AM - 4:00 PM EST
Please call for assistance
before returning the clock
to the store.**

One Year Limited Warranty

M.Z. Berger & Company warrants the original consumer purchaser of this product that it shall be free of defects in materials and workmanship for one year from the purchase date of this product. Defects caused by tampering, improper use, unauthorized modifications or repairs, immersion in water or abuse are not covered by this warranty. If a defect covered by this warranty occurs during the warranty period, wrap your clock carefully and send it to the following address:

MZ Berger Service Center
29-76 Northern Boulevard
Long Island City, NY 11101

You must include a Proof of Purchase, either the original receipt or a photocopy and a check or money order for USD \$8.00 to cover the cost of handling. Also include your return address inside the package. M.Z. Berger will repair or replace the clock and return it to you. M.Z. Berger will not be liable for any loss or damage, including incidental or consequential damages of any kind; from any breach of warranty either expressed or implied relating to the product. Since some states do not allow the exclusion or limitation of incidental or consequential damages, this limitation may not apply to you.

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Model SPC960

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