SHARP SPC1107 ATOMIC WALL CLOCK

Sharp SPC1107 Atomic Wall Clock Instruction Manual

Contents

SHARP®

Sharp SPC1107 Atomic Wall Clock

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 and store them in a safe place for future reference.

The clock has a built-in receiver that automatically synchronizes itself with the WWVB radio signal broadcast by the US Government's National Institute of Standards & Technology (NIST) in Fort Collins, Colorado. The WWVB radio signal daily broadcast ensures that the atomic clock will always display the most accurate date and time.

The receiver unit has a clear, easy-to-read display that shows indoor temperature, outdoor temperature, time, month, date, and day. The remote sensor transmits the outdoor temperature. To receive the outdoor temperature, place the sensor anywhere within 30 meters; the 433.92MHz technology means no wire installation is required.

The Atomic Clock will always be accurate to within one second as it receives daily WWVB updates. Daylight Saving Time also automatically updates so there is no need to re-set the clock manually!

IMPORTANT: If the Atomic Clock does not receive the WWVB signal immediately, wait overnight and it will be set in the morning.

QUICK START GUIDE

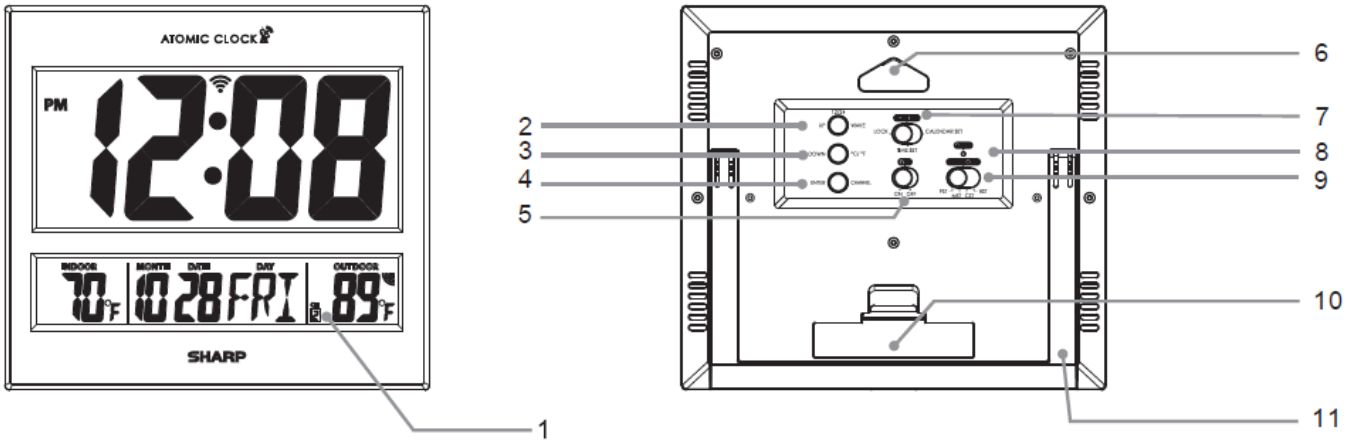
1. Insert batteries into the remote sensor. In the battery compartment, set the Channel to number 1.
2. Insert batteries into a clock.
3. Set the Channel to receive outside temperature to number 1. Locate the Channel button on the back side of the clock.

   Note the Channel number displayed in the Outside Temperature section of the clock display.

4. Locate the Daylight Savings Button and turn it to ON.
5. Choose your time zone.
6. Now you can either set the time and day manually OR wait until the clock receives the atomic signal. The signal is usually received overnight but it will begin looking for the signal immediately. During the day there is a lot of interference and that is why the signal is often received overnight. Once the clock receives the atomic signal and all of the clock settings are in place, the time and date will be automatically updated.

Atomic Clock

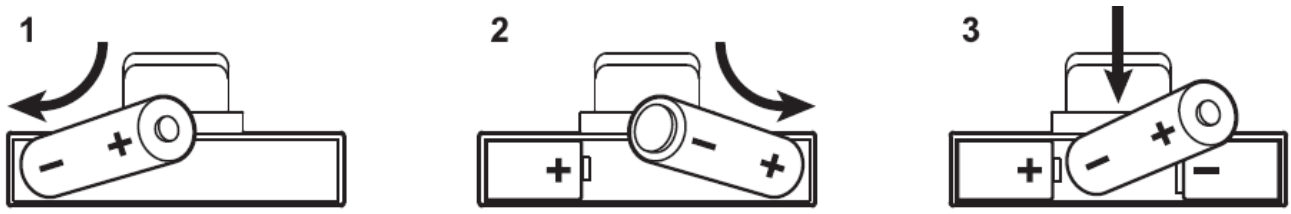
FEATURES



1. **CLOCK DISPLAY:**
    - Displays time in hours and minutes; calendar display of month, date & day; indoor temperature; outdoor temperature; signal strength indicator; daylight saving (DST).
2. **UP / WAVE / 12/24 BUTTON:**
    - In the TIME / CALENDAR setting mode, press it to increase the setting values. Hold the button for 3 seconds, the display will change rapidly.
    - In normal mode, press and hold the button for 3 seconds to receive the RCC signal immediately.
    - During the RCC receiving period, press the button again to stop the RCC reception.
    - In normal mode, press the button to switch to the 12/24 time display format.
3. **DOWN / °C/°F BUTTON:**
    - In the TIME / CALENDAR setting mode, press the button to decrease the setting values. Hold the button for 3 seconds, the display will change rapidly.
    - In normal mode, press the button to switch the temperature unit °C/°F.
4. **ENTER / CHANNEL BUTTON:**
    - In the TIME / CALENDAR setting mode, press the button to confirm the setting.
    - In normal mode, press the button to switch between channels 1, 2, and 3 to receive the 433.92MHz signal; Press and hold the button for 3 seconds will pair with the outdoor remote sensor.
5. **DST SWITCH:**
    - In normal mode, slide the switch to ON/OFF the DST function.
6. WALL MOUNT
7. **SETTING SWITCH:**
    - In normal mode, slide the switch to select a different setting mode (LOCK/TIME SET/CALENDAR SET).

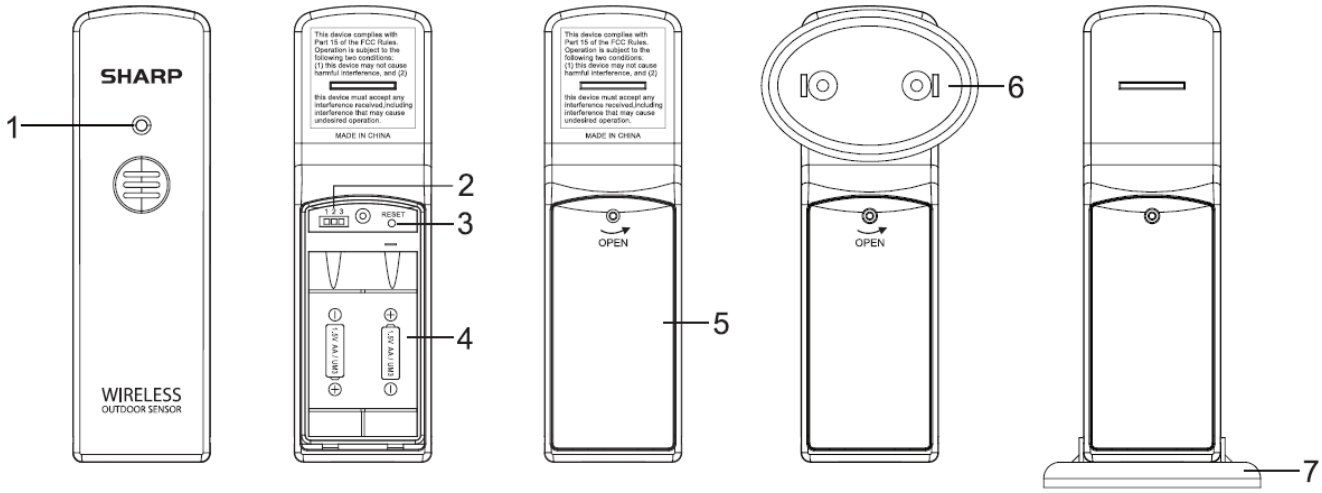
8. **RESET BUTTON:**
    - In case of malfunction, press the button to reset all values to default values.
9. **TIME ZONE SWITCH:**
    - In normal mode, slide to select the desired time zone (Pacific Time, Mountain Time, Central Time, Eastern Time).
10. **BATTERY COMPARTMENT AND DOOR:**
    - Use 3 AA-size batteries (Duracell® Recommended).
11. TABLE STAND

LOADING BATTERIES INTO THE CLOCK



1. With the “+” facing right, slide the first battery all the way into the battery compartment on the left side.
2. With the “+” facing right, slide the second battery all the way into the battery compartment on the right side.
3. With the “+” facing right, fit the third battery into the center of the battery compartment & close the cover.

Remote Transmitter



1. **LED INDICATOR:**
    - LED Flashes when the remote unit transmits a reading
2. **CHANNEL SLIDE SWITCH (inside the battery compartment):**
    - Assign the transmitter to channels 1, 2, or 3 to receive a 433.92MHz signal
3. **RESET BUTTON:**
    - Press it to restart the transmitter and return all values to default values.
4. **BATTERY COMPARTMENT:**
    - Use 2 AA-size batteries.
5. BATTERY DOOR
6. WALL MOUNT

7. TABLE STAND

SETTING

SETTING UP THE TRANSMITTER:

1. Remove the battery door insert 2 AA batteries into the battery compartment and follow the polarities marked.
2. Slide the switch to Channel 1. Press the RESET button to set the transmitter.
3. Press the CHANNEL button at the back of the clock to set channel 1.
4. Lock the transmitter battery door with the screw.
5. Place the units away from metal objects and electrical appliances to minimize interference. Position the receiver within the effective transmission range of 30 meters in usual circumstances.
6. If the Channel 1 signal is not received properly, change the transmitter slide button to Channel 2 or 3. Press the CHANNEL button on the clock to 2 or 3 respectively. Press and hold the CHANNEL button for three seconds. The unit will start to find a new channel.

NOTE:

1. To receive the transmitter signal, the channels of the receiver and transmitter must match each other.
2. Once the channel is assigned to the transmitter, you can only change it by removing the batteries or resetting the unit.

SETTING UP THE ATOMIC CLOCK:

1. Remove the battery door from the back of the wall clock and insert 2 AA batteries. Insert them according to the marked polarity.
2. Replace the battery door.

SIGNAL STRENGTH INDICATOR:

1. The signal indicator displays signal strength in 4 levels. Wave segment flashing means time signals are being received.

NOTE:

1. The unit will automatically search for the time signal at 2:00 am (3:00 am, 4:00 am, 5:00 am, 6:00 am is also available if the signal was not received at 2:00 am)|
2. Closed areas such as airports, basements, tower blocks or factories are not recommended.
3. While the atomic signal is flashing, the control panel is inactive.

SUGGESTION:

Make sure you read the instructions before operating this clock. We have developed this sophisticated instrument for the best reception performance; however, the signal transmitted from the USA Atomic Clock transmitter will be affected in certain situations. We advise you to note the following instructions:

1. It is strongly recommended to start this clock at night and let the clock receive the signal automatically past midnight.
2. Always place the unit away from interfering sources such as TV sets, computers, etc.
3. Avoid placing the unit on or next to metal plates.
4. Areas with access to windows are recommended for better reception.
5. Do not start reception in moving articles such as vehicles or trains.

DAYLIGHT SAVING TIME (DST):

- The clock has been programmed to automatically switch when the daylight saving time is in effect. Your clock will show DST during the summertime if you turn on the DST.

TIME ZONE SETTING:

- The default time zone is PACIFIC. If your location is not in the Pacific, set the time zone by sliding the TIME ZONE switch to Pacific Time/ Mountain Time/ Central Time/ Eastern Time zone in the normal mode.

TIME AND CALENDAR SETTING:

Time and calendar can be set manually. As soon as the transmitter signal is received again, the clock will automatically synchronize with the exact time and calendar.

- Slide the SETTING switch to TIME SET or CALENDAR SET to set the time or calendar..
- Press the UP and DOWN buttons to change the value and press the ENTER button to confirm the setting.
- Follow the sequence: Hour>Minute (TIME) and YEAR>Month>Date>Language (CALENDAR).
- Once the time or calendar is set, slide the switch to LOCK.

BATTERY REPLACEMENT

- If the low battery indicator appears beside the outdoor temperature of the main unit, it indicates that the transmitter batteries need replacement. If the low battery indicator is displayed at the top left corner, it indicates that the atomic clock batteries need replacement.

NOTE: Attention! Please dispose of used units or batteries in an ecologically safe manner.

BATTERY WARNING:

- Clean the battery contacts and also those of the device prior to battery installation. Follow the polarity (+) and (-) to place the battery.

- Do not mix old and new batteries.
- Do not mix Alkaline, Standard (Carbon – Zinc), or Rechargeable (Nickel – Cadmium) batteries.
- Incorrect battery placement will damage the clock movement and the battery may leak.
- Exhausted battery is to be removed from the product.
- Remove batteries from equipment that is not to be used for an extended period of time.
- Do not dispose of batteries in a fire. Batteries may explode or leak.

USING THE WALL MOUNT:

The transmitter has a desktop and wall mounting structure.

- For the Atomic Clock, use the recessed hold on the back of the clock to hang it.
- For the Transmitter, hang or place the separate wall-mounting part in an area protected from direct rain. Once the stand is mounted, place the transmitter into the stand on the wall.

SPECIFICATIONS

MAIN UNIT

- **Recommended operating range:** 0°C to 45°C, 32°F to 113°F
- **Calendar range:** from year 2014 to 2099
- **Radio-controlled signal:** WWVB

REMOTE TRANSMITTER

- **Recommended operating range:** -20°C to 60°C, -4°F to 140°F
- **RF transmission frequency:** 433.92MHz
- **Remote transmitter:** 1 unit
- **RF transmission range:** maximum 30 meters
- **Temperature sensing cycle:** around 50 seconds

POWER

- **Main unit:** 4.5V, use 3 x AA 1.5V alkaline battery
- **Remote transmitter:**3V, use 2 x AA 1.5V alkaline battery

DIMENSION

- **Main unit:**
  - 22.2(W) x 20.2(H) x 2.3(D)cm
  - 8.74(W) x 7.95(H) x 0.90(D)inch
- **Remote transmitter:**
  - 4.0 (W) x 13.0 (H) x 2.4(D)cm
  - 1.6(W) x 5.1(H) x 0.9(D)inch

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If customer service is needed, please email **custserv_clocks@mzb.com** or call toll-free at 1-**800-221-0131** and ask for Customer Service. Monday-Friday 9:00 AM – 4:00 PM EST

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 $6.00 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, thislimitation may not apply to you.

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Model SPC1107

SHARP, is registered with the U.S. Patent and Trademark Office.

FREQUENTLY ASKED QUESTIONS

Why is my Sharp SPC1107 Atomic Wall Clock not displaying the correct time?

The most common reason for incorrect time display on the Sharp SPC1107 Atomic Wall Clock is a loss of synchronization with the atomic timekeeping source. Ensure the clock is placed in an area with good radio reception and allow it some time to receive the signal for synchronization.

What should I do if the temperature display on my Sharp SPC1107 Atomic Wall Clock is inaccurate?

If the temperature display on your Sharp SPC1107 Atomic Wall Clock is inaccurate, check the placement of the wireless outdoor sensor. Ensure it is positioned correctly and away from sources of heat or cold that could affect its readings.

How do I troubleshoot if my Sharp SPC1107 Atomic Wall Clock is not responding to button inputs?

If your Sharp SPC1107 Atomic Wall Clock is not responding to button inputs, try replacing the batteries with fresh ones. Sometimes, low battery power can cause issues with the functionality of the clock.

Why is the calendar display not updating on my Sharp SPC1107 Atomic Wall Clock?

If the calendar display is not updating on your Sharp SPC1107 Atomic Wall Clock, check if the clock is set to the correct date and time zone. Additionally, ensure that the clock is synchronized with the atomic timekeeping source for accurate calendar updates.

What can I do if the digital display on my Sharp SPC1107 Atomic Wall Clock is dim or flickering?

Dim or flickering digital display on the Sharp SPC1107 Atomic Wall Clock may indicate low battery power. Replace the batteries with new ones to ensure proper functioning of the clock's display.

How do I reset the Sharp SPC1107 Atomic Wall Clock to its factory settings?

To reset the Sharp SPC1107 Atomic Wall Clock to its factory settings, locate the reset button (usually on the back or bottom of the clock) and press it using a pointed object such as a paperclip. This will restore the clock to its original settings.

What should I do if the outdoor temperature reading on my Sharp SPC1107 Atomic Wall Clock is stuck or frozen?

If the outdoor temperature reading is stuck or frozen on your Sharp SPC1107 Atomic Wall Clock, try removing and re-inserting the batteries in both the clock and the wireless outdoor sensor. This can sometimes reset the connection and resolve the issue.

How do I troubleshoot if my Sharp SPC1107 Atomic Wall Clock is not receiving the radio signal for synchronization?

If your Sharp SPC1107 Atomic Wall Clock is not receiving the radio signal for synchronization, try moving it to a different location with better radio reception, such as near a window or away from electronic devices that may cause interference.

How can I prolong the battery life of my Sharp SPC1107 Atomic Wall Clock?

To prolong the battery life of your Sharp SPC1107 Atomic Wall Clock, avoid placing it in extreme temperatures, as this can drain the batteries more quickly. Additionally, replace the batteries with high-quality ones when necessary to ensure optimal performance.

How does the Sharp SPC1107 Atomic Wall Clock synchronize its timekeeping with atomic accuracy?

The Sharp SPC1107 Atomic Wall Clock utilizes atomic operation mode, allowing it to synchronize with atomic timekeeping sources for precise and reliable timekeeping.

What is the special feature of the Sharp SPC1107 Atomic Wall Clock that allows it to display outdoor temperature?

The Sharp SPC1107 Atomic Wall Clock includes a wireless outdoor sensor, enabling it to display outdoor temperature information for added convenience and functionality.

What is the power source used to operate the Sharp SPC1107 Atomic Wall Clock?

The Sharp SPC1107 Atomic Wall Clock is battery-powered, providing flexibility in placement without the need for a direct power source.

How does the contemporary style of the Sharp SPC1107 Atomic Wall Clock contribute to its overall design?

The contemporary style of the Sharp SPC1107 Atomic Wall Clock enhances its aesthetic appeal, making it a stylish addition to modern interiors.

Who is the manufacturer of the Sharp SPC1107 Atomic Wall Clock, and what is its retail price?

The Sharp SPC1107 Atomic Wall Clock is manufactured by Sharp and is priced at $32.99, offering a cost-effective solution for accurate and feature-rich timekeeping.

How does the Sharp SPC1107 Atomic Wall Clock ensure accurate calendar display?

The Sharp SPC1107 Atomic Wall Clock synchronizes with atomic timekeeping sources, ensuring accurate calendar updates along with precise timekeeping.

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References

- **User Manual**

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