

TALKING ATOMIC
WATCH
INSTRUCTIONS

Your Analog Talking Watch is a Single Band Radio Controlled watch. The National Institute of Standards and Technology (NIST) radio station, WWVB, located in Ft. Collins, Colorado, continuously broadcasts the time signal at 60 Khz. This signal can be received up to 2,000 miles away, anywhere in the continental USA where long wave (AM) radio reception is possible, The WWVB station derives its signal from the NIST Atomic Clock in Boulder, CO . Your Atomic Watch automatically adjusts for daylight saving time.

BEFORE FIRST TIME USE SET YOUR TIME ZONE!

Please wait whenever the clock hands are automatically spinning. The watch is setting the correct time. Your watch will resume running with the correct time automatically when the second hand stops

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- 6. After confirmation, the watch will say the Alarm time that you have set.
- 7. You can also check your Alarm time with a push of the 10 o'clock button any time you want.
- 8. The Alarm will Beep for 30 seconds; you can turn off the alarm with the push of any button.
- 9. The Alarm is a Daily alarm, so even after you turn off the Beeping Sound, the alarm will Beep again the next day. If you want to permanently turn off the Daily Alarm, you can follow the Alarm Off setting below.
- 10. Every time the Alarm goes off, the watch will say the Alarm Time.

Alarm ON/OFF:

- 1. Hold 8 o'clock button while the watch is in the real time mode for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock to set."
- 2. Push 8 o'clock button one more time, the watch says "Alarm ON/OFF, Press 10 o'clock button to set."
- 3. Press 10 o'clock button.
- 4. The watch says, "Press 2 o'clock button to ON, 4 o'clock button to OFF, 8 o'clock button to confirm."

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- watch will not be able to pick up signal at 3:00AM).
- 6. Press 4 o'clock button to set Minute.
- 7. Press 8 o'clock button to confirm after you have set the Time.
- 8. After confirmation, the watch will automatically run to the time you have set. Wait until the watch stops running fast.

Your watch is not able to manually set Day, Month and Year. The watch provides this information only when a first signal reception is received.

Best Overnight Signal Reception Method:

Your watch should be positioned in the following manner and placed near a window during signal reception in order to get the best possible result.

Correct Position for Signal Reception, Metal, Leather or PU Band Watch.

- Place the watch case flat or face down on a wooden table during signal reception

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stop. The talking function also terminates. The battery needs to be replaced. Go to "Battery Replacement" section for details.

NOTE: If the watch hands DO NOT stop at 12 o'clock before battery replacement you need to reset the hands to 12 o'clock manually immediately after a new battery is installed. Go to "Reset Procedure / Set the Hands to 12 o'clock Manually" section for details.

Battery Replacement:

- This watch uses a CR2032 type battery; trained jewellers or watch specialists should replace the batteries to avoid any damage to the watch.
- 1. Open and carefully remove the back of the watch.
- 2. Lift up the battery spring on the bottom.
- 3. Remove the battery and insert a new one with the polarity "+" facing up.
- 4. Push the battery spring down until it locks.
- 5. Before you replace the case-back, make sure the seal is in place.
- 6. The watch confirms the hands position automatically 10 minutes after a new battery is installed.

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spinning fast. You will not be able to use any other function while the watch is setting itself.



Time Zone Setting:

To receive the correct time you first need to set your Time Zone:

- 1. Hold 8 o'clock button for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock button to set"
- 2. Push 8 o'clock button another 3 times in a row, until the watch says "Time Zone Setting. Press 10 o'clock button to set"
- 3. Press 10 o'clock button
- 4. After pressing 10 o'clock button, it says "Press 2 o'clock button to set, 8 o'clock button to confirm" Press 2 o'clock button repeatedly until you reach correct time zone then stop: USA, Pacific USA, Mountain USA, Central USA, Eastern

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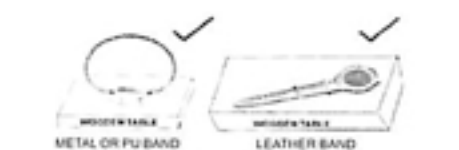
- 5. To turn ON the daily alarm, Press 2 o'clock button. To turn OFF the daily alarm, Press 4 o'clock button.
- 6. Press 8 o'clock button to confirm.
- 7. If Alarm is OFF, the watch says, "Alarm is OFF" when 10 o'clock button is pushed.
- 8. If Alarm is ON the watch says, "The alarm time is" followed by the alarm time when 10 o'clock button is pushed.

Hourly Chime Settings:

Hourly Announcement (Chime) ON/OFF

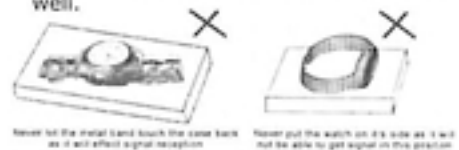
- (When Chime is ON, the watch announces the HOUR every Hour)
- 1. Hold 8 o'clock button while the watch is in the real time mode for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock button to set."
- 2. Push 8 o'clock button 2 more times, until the watch says "Chime ON/OFF, Press 10 o'clock button to set"
- 3. Press 10 o'clock button.
- 4. The watch says, "Press 2 o'clock button to ON, 4 o'clock button to OFF, 8 o'clock button to confirm."

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Incorrect Position for Signal Reception:

- Don't let the metal watchband touch the case back as it may affect signal reception. (Insert a piece of cardboard between the case back and the metal band to keep them separated).
- Never put the metal band, leather band or pu band watch on it's side because it may not be able to pick up the signal well.



Troubleshooting:

Your watch is a very delicate and precise instrument. Although uncommon, sometimes hard knocks or vibrations can cause the hands to move irregularly, and therefore display the incorrect time,

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- 7. Set the watch in a location where signal reception is possible and wait until the watch sets itself automatically. This will take from 1 to 24 hours.
- 8. After battery replacement the watch defaults to Pacific Time Zone. Set your Time Zone as necessary after the watch picks up the signal. Go to "Time Zone Setting" section for details.

Reset Procedure / Set the Hands to 12 o'clock Manually:

On rare occasions if the watch hands have not automatically stopped at 12 o'clock before battery replacement, first change the battery as described in "Battery Replacement" section. Immediately following battery replacement all hands (hour, minute and second hands) have to be moved to the 12 o'clock position (12:00:00) manually to reset the watch. The watch will not run until re-initialized. Follow the steps below.

Another instance when you may need to perform the Reset Procedure below would be if your watch does not display the correct time after you have done the following steps: you have re-calibrated the watch, you have set the watch to your

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- 5. Press 8 o'clock button to confirm after making your selection
- 6. After confirmation, the watch hands will spin automatically until they reach the local time of the selected time zone.
- 7. When switching between "Daylight Saving Time" and "Standard Time" the time will be corrected after signal reception has been updated overnight.
- 8. The watch will synchronize with the USA atomic clock automatically every night.

Talking Functions:

Time:

Push 2 o'clock button to hear the Hour and Minute.

Date:

Push 4 o'clock button to hear the Day, Month, Date and Year Note: There is no Date Talking function after a new battery is installed until it gets a first signal reception.

Reception Status Check:

- 1. Push 8 o'clock button once while the watch is running normally.

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- 5. To turn OFF a Chime Alert, Press 4 o'clock button. To turn ON a Chime Alert, Press 2 o'clock button.
- 6. Press 8 o'clock button to confirm.
- 7. After a Chime alert is turned ON, the watch will announce the HOUR every one hour.

Manual Signal Reception:

Set the correct Time Zone before initiating Manual Signal Reception. Go to "Time Zone Setting" section for details. Follow below if you want your watch to search for signal immediately and not wait overnight.

While the watch is in normal running mode:

- 1. Press and Hold the 10 o'clock button until the second hand stops at the 7 o'clock position.
- 2. The watch takes about 5 to 15 minutes to pick up the radio signal. Wait until the watch has finished the signal receiving procedure.
- 3. After successful signal reception, the watch will show the correct time after the fast running second-hand stops.
- 4. Push 8 o'clock button once. The watch will say the status of the reception.
- 5. If reception was successful, the watch will say "USA Time Updated."

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although the internal clock is keeping accurate time. If when doing a "manual signal reception" (press and hold the 10 o'clock button until the second hand stops) the second-hand does not pause exactly at the 7 o'clock reference point (half second deviation is acceptable), then the second-hand needs to be re-calibrated.

Re-calibrate the shifted second-hand:

- 1. Make sure the watch is running normally.
- 2. Hold 8 o'clock button for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock button to set."
- 3. Push 8 o'clock button 5 more times until the watch says "Second-Hand Alignment, Press 10 o'clock button to set."
- 4. Press 10 o'clock button. Watch says, "Press 2 o'clock button to set, 8 o'clock button to confirm."
- 5. Keep an eye on the second-hand as it moves to a new position and stops somewhere before 6 o'clock position then immediately Press 2 o'clock button repeatedly until the second-hand points exactly down at 6 o'clock position. Press 8 o'clock button to confirm. (The watch will stop for a

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correct time zone, and the watch has picked up the time signal but the time displayed is still incorrect.

- 1. Immediately after battery has been replaced hold 2 o'clock button until the hands move quickly. You can stop the fast movement by pressing 2 o'clock button again.
- 2. Stop the fast movement just before the second hand reaches the 12 o'clock position (i.e. 11:45:00) by pressing 2 o'clock button.
- 3. Adjust the second-hand to move it to the 12 o'clock position (12:00:00) by pressing/releasing the 2 o'clock button one second at a time. (If you accidentally go past the 12, start this process again.)
- 4. When all hands are aligned at the 12 o'clock position (12:00:00), Push 10 o'clock button for 1 second to confirm.
- 5. After confirmation, follow the procedure below after the watch resumes running: a: Set the watch to your correct Time Zone as necessary. (Watch defaults to Pacific Time Zone after battery replacement.) b: Set your Local Time manually (go to "Manual Time Setting" section for

- 2. If the reception was successful, the watch will say "USA Time Updated"
- 3. If the reception failed, the watch will say "USA Time Not Updated"

Alarm Time:

- 1. Push 10 o'clock button once and you will hear if Alarm Time has been set
- 2. If the Alarm is turned Off, the watch will say "Alarm is Off"
- 3. If the Alarm is turned On, the watch will say "The Alarm time is" (followed by the alarm time)

Alarm Settings:

Set Daily Alarm Time:

- 1. Hold 8 o'clock button while the watch is in real time mode for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock button to set."
- 2. Press 10 o'clock button.
- 3. The watch says, "Press 2 o'clock button to set Hour, 4 o'clock button for Minutes, 8 o'clock to confirm."
- 4. Press 2 o'clock button repeatedly to set Hour. Next press 4 o'clock button repeatedly for Minute.
- 5. Press 8 o'clock button to confirm after you have set the Alarm time.

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- 6. If reception failed, the watch will say "USA Time Not Updated."
- 7. You may move watch to another location where reception may be more favorable and try manual reception again or wait overnight for better possible reception.

Manual Time Setting:

You should use this function if traveling to countries with no signal reception. You must also set correct time of day (AM/PM) and time zone when you come back from travel to other countries.

- 1. Hold 8 o'clock button for more than 5 seconds until the watch says "Set Alarm, Press 10 o'clock button to set"
- 2. Push 8 o'clock button 4 more times, until the watch says, "Set time. Press 10 o'clock button to set"
- 3. Press 10 o'clock button
- 4. The watch says, "Press 2 o'clock button to set Hour, 4 o'clock button for minutes, 8 o'clock button to confirm"
- 5. Press 2 o'clock button to set Hour. Listen very carefully to the watch to make sure the right AM or PM has been set (if you set the wrong AM/PM your

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- while. Just wait until the watch resumes normal running).
- 6. If the second hand stops advancing before it reaches 6 o'clock position repeat steps 2 through 5 above until the second hand points to exactly 6 o'clock.
- 7. The second-hand is re-calibrated.

Watch Not Receiving Time Signal: Reasons for not being able to receive the Time Signal include:

- Being outside of the country
 - Being in a built up area
 - Metal objects blocking the radio signal
 - Interference from computer monitor or TV
- Ensure that the watch is set by a window, as this provides the best reception, you may have to try different windows in the house to see which is best. Please note that reception is always better at night. If your watch is unable to receive the radio signal, it will continue to function in the same way as a standard watch. The time will then be corrected the next time your watch receives the time signal.

Low Battery Detection:

When the battery is low, the watch hands automatically advance to 12 o'clock and

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- details). You don't need to set to the exact minute and second but make sure HOUR and AM or PM time of day are correct. Your watch will synchronize to the Atomic clock after it receives the signal (the reason to set time is to make sure your watch will initiate signal reception at around 3AM local time.)
- c: Put the watch in a location where reception is possible. The watch will automatically initiate a reception at 3AM. After receiving a valid time signal, the hands move on to the correct time.

Battery Lifetime and Replacement:

Talking Requests per Day	Battery Life
0	2 Years
5	1 Years
10	8 Months
15	6 Months
20	5 Months
25	4 Months

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