Atomic clock Instructions

Finding a Good Location:

The clock movement has a very specialized AM radio receiver that is tuned to receive the 60KHz WWVB time signal broadcast from the U.S. Government's atomic clock in Boulder, Colorado & Fort Collins. The signal is an AM radio signal. Weather conditions, electrical interference, solar conditions and the position of the clock's internal antenna effect its reception. As a general rule, best reception is at night and just before or after sunrise and or sunset. Although the clock can work in most locations, the number of times that it adjusts itself to the U.S. atomic clock's time signal may depend on its location. Under certain weather conditions or in areas of poor reception, it may take several days to receive a signal for the correct time.

Set-up Instructions:

Select the correct "time zone" for your area by sliding the time-select switch: (P) Pacific Time, (M) Mountain Time, (C) Central Time, and (E) Eastern Time.

Starting the Clock:

Insert a new AA alkaline battery (1.5V) into the compartment. The second hand will make one revolution and stop at the 12 o'clock position, then the minute hand and hour hands will move to the 4 o'clock position and the clock will search to receive the radio signal.
If the signal is strong, within three minutes the clock will set itself. If the signal is weak, or the clock is unable to receive the signal, the hands will not move. The clock will attempt to receive the signal once each hour for the next 24 hours.
After 24 hours, if there is still no signal, the hands will move but not to the correct time. The clock will search for the signal on the odd hours, every 2 hours (1,3,5 o'clock). This indicates there is no reception at this location and the clock should be moved to another location in order to receive the signal.

To Improve the Radio Signal Reception:

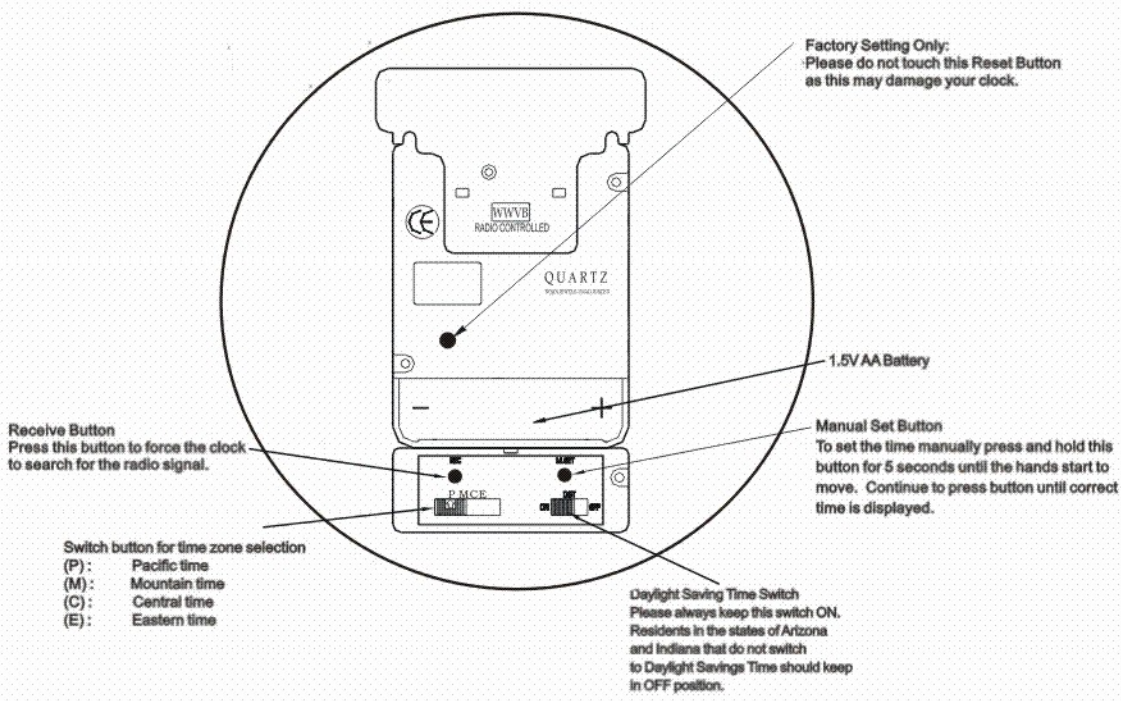
- **Do not place the clock too close to household appliances such as televisions, computers, speakers, VCR's or fax machines.**
- **Do not place on top of or close to metal surfaces.**
- **Do not place in a metal or concrete building unless close to a window with the curtains or other window treatment open.**
- **Do not use inside of a moving vehicle.**

Radio signal reception may be blocked by:

- **Mountains and valleys, tall buildings, power plants, power lines or high voltage cables, freeways and airports, construction sites, traffic lights or neon lights.**

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 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.**

Please Note

The best conditions for your clock to receive the U.S. atomic clock's radio signal are found at night. Depending on local conditions, it may take up to 24 hours for your clock to receive an adequate signal and set the correct time for your area.