

What is a Radio Controlled Clock?

A radio controlled clock is a clock with an internal radio receiver that is permanently turned to receive a special 60 kHz time signal transmitted by the National Institute of Standards and Technology (NIST) radio station WWVB, located in Fort Collins, Colorado. The WWVB transmitter is linked to a cesium atomic clock, the most accurate time keeping device in the world with a time deviation of less than one second in one million years. Your Howard Miller radio controlled clock provided with APCO MyDay product is specially programmed to interpret the WWVB time signal and set itself to the correct local time. For more information on the WWVB signal and radio controlled clocks you can visit the NIST website at <http://www.bldrdoc.gov/timefreq>.

Coverage and Placement - IMPORTANT! Please Read:

The signal transmitted by the NIST is strong enough to cover the entire continental United States and parts of Canada and Mexico. However, as with any radio signal, certain geographic features, weather disturbances and building structural characteristics will affect the strength and reception of the signal.

Please note the following points:

1. It is highly recommended that you **first start the clock at night and let it attempt to receive the signal automatically overnight**. Best signal reception occurs between 10:00PM and 5:00AM.
2. For best performance, try to **place the clock near a window, preferably so that it is facing Fort Collins, CO**.
3. Do not locate the clock within 6' of a radio, television, computer, electrical raceways, power lines, electric motors, microwave or any other device or appliance that may cause electrical interference.
4. Enclosed areas such as a basement or interior areas of large concrete/steel office buildings can be difficult locations for radio reception and are not recommended.

Starting Your Clock

1. Locate the signal/battery box on the back side of your clock. (Fig. 1)
2. Install a fresh AA size Alkaline battery (*use alkaline batteries only*) in the battery holder according to the (+) and (-) symbols shown in the diagram. **DO NOT** use a rechargeable battery in the clock.
3. Press the time zone button corresponding with your area.

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

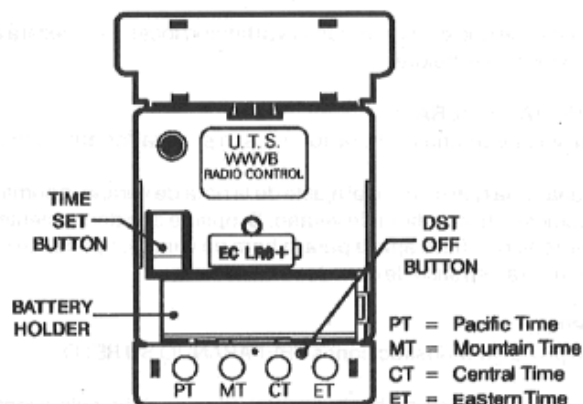


Fig. 1 Signal/Battery box

Daylight-Saving Time Adjustment

Adjustments for daylight-saving time and standard time are made automatically.

If you live in an area that does not adjust for daylight-saving time, you will need to press the "DST OFF" button.

Automatic Time Setting

1. After the battery is installed, the hands will advance to either the 4:00, 8:00 or 12:00 position and stop. The receiver will be switched on and the clock will search for the WWVB time signal.
2. If the clock is able to receive the time signal, it will automatically set the hands to the correct time. After setting, the clock will periodically search for the signal each day and adjust the hands accordingly so that the clock remains in synch with the WWVB time signal.
3. If the clock does not receive the time signal, it will remain stopped and will continue to search for the time signal every hour.

Manual Time Setting / If Poor Reception

If your clock does not automatically set itself within 24 hours after inserting the battery, it is probably due to poor reception. This is normally a temporary condition. Refer to the "Coverage and Placement" section of these instructions and move the clock to another location for improved signal reception. Best signal reception occurs between 10:00PM and 5:00AM.

To manually set the time:

1. Press and hold the "Time Set" button until the second hand starts to move. Release the button.
2. The second hand will run and stop at the 12 position. After the hand stops, press and hold the "Time Set" button to advance the hour and minute hands.
3. When the hands get within a few minutes of the current time, release the "Time Set" button and press it momentarily to advance the hands in the 1-minute increments.
4. Approximately three seconds after you last press the "Time Set" button, the clock will automatically exit the manual setting mode and begin running normally. If this happens before you finish setting the clock, repeat the steps 1 through 3.
5. The clock will now be reliably set to the correct time and will be ready to automatically pick up the time signal once reception improves.

Important: Manual time setting is not intended for permanent setting of the clock to a time other than the correct time for the time zone selected. Whether the time is set manually or automatically, the clock periodically searches for the time signal each day. After receiving the signal, it will adjust the time based on the time zone selected.

Trouble-Shooting: Clock is Not Synchronizing

1. Make sure the AA Alkaline battery is fresh.
2. Try mounting the clock on a wall perpendicular to the one it is currently on. *(i.e. if it is currently on a North-South wall, try locating on an East-West wall)*
3. Place the clock along a wall near a window that faces Fort Collins, CO.
4. Make sure the clock is at least 4-6 feet away from any computer monitors.
5. To rule out a defective clock, take the clock outdoors at night and power it down, i.e. remove the battery. Reinsert the battery and wait several minutes. If the clock locates a signal and works properly outside, there is likely a local signal interference within the building where the clock has been located. If the clock does not work outside either, there could be a malfunction with the clock itself. In that case, contact APCO at 877.988.2726.

Limited Warranty

This clock is warranted to be free of any defect in workmanship or materials for a period of one year after the date of purchase. You should notify APCO promptly in writing or by email in the event of any defect covered by this warranty. When requesting warranty service, you must provide documentation regarding the original date of purchase.

This warranty does not cover the clock's inability to receive a signal due to interference, whatever the source of the interference may be. In addition, this warranty does not cover any defects resulting from improper use or handling, unauthorized repairs or faulty batteries.

APCO DOES NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS CLOCK.

This Limited Warranty gives you specific legal rights. However, you may have other rights which may vary from state to state.