

## Quick Start Steps:

- Re-Start your clock in the flat travel position
- Make sure you have the switch on far left on USA
- The bottom switch must be in the LOCK position
- Push the tiny RESET button in with a pen or other pointy object
- Slide the bottom switch one notch to the ZONE/DST position
- Push top left ZONE button marked "12-24H/Month off-set Zone", until your time zone appears at top of the clock front
- Push bottom switch back to the LOCK position, for the clock to operate

It is best to not do anything to the clock, make changes, set other functions, etc. until the clock has made the initial synchronization. You will know it has synchronized when you see the correct Day & Date displayed on the clock.



“GLOBAL SYNC”  
RADIO CONTROL WORLD  
TRAVEL ALARM CLOCK

Instructions  
for Chass™  
#00190 & #00191



Chass items #00190 & #00191  
“Global Sync”

Thank you for your purchase of another Chass™ quality product. Please read the following background information and follow these instructions to enjoy the many wonderful features that these products offer:

**1. What makes “Global Sync” unique?**

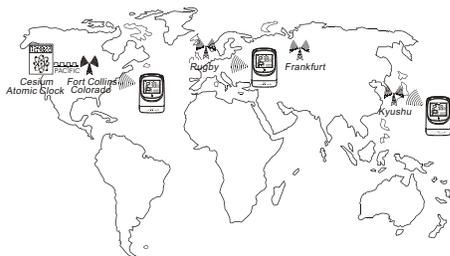
Atomic radio control clocks are the most precise time keeping devices in the world. They keep time to the accuracy of more than 1 second in one million years. Until recently, the atomic clocks were only found in laboratories and special institutions and were very large and expensive. When various governments began to broadcast atomic, electronically encoded signals with their own national time, the accuracy of the atomic radio control clock became available to the general public. Recent technology enabled this process to be miniaturized and to be offered at a reasonable cost.

The Global Sync takes it one step further. Until the development of this clock, atomic clocks were able to receive and decode signals from only one transmitter. Clocks made to receive signals in Europe did not work in the USA or vice versa. A different clock was needed for each time signal. The Global Sync changed it all. Besides being functional, compact and of sleek P.1

design, it is able to receive signals transmitted by the various governments' locations in:

- Fort Collins, Colorado, which covers all 4 zones in the USA
- Rugby, UK, which covers all of UK
- Near Frankfurt, Germany, which covers most of Western and some of Central Europe
- Kyushu Island, Japan, which covers most parts of Japan and parts of Korea

The transmitted signal is picked up by the radio receiver in your clock and it is decoded with a split second precision, to synchronize to the accurate time. At the same time, the radio signal automatically sets the calendar function and for countries adopting daylight savings and standard time, it adjusts automatically.



(Fig. 1 Atomic radio controlled time signal transmitters )

**2. Identifying your clock parts**

The clock is in a traveling position when it is removed from the box. By twisting the bottom section of the clock, a base is formed for standing use on a desk, night table or any flat surface.

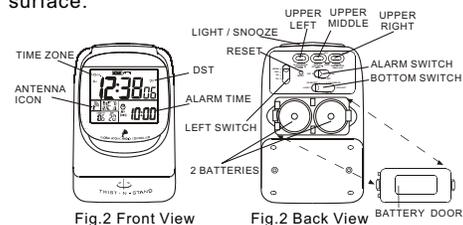


Fig.2 Front View Fig.2 Back View

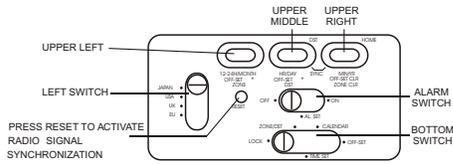
(Fig.2 Front view and back view).

**3. Activation procedure and battery information**

The clock uses two CR2450 Lithium button cells, which are included. To preserve the battery life during transit and until it reaches the consumer, the clock is shipped with a plastic battery saver tag. To activate the clock, remove the plastic battery saver tag and numbers will appear on the LCD screen. (**Note:** the clock is designed to maximize the battery life. The activation using fresh, new batteries will create a shadow effect on the LCD screen.

This effect is only temporary and the numbers will become clear in only a few days). These batteries will last 6 months to 1 year (depending on the frequency of alarm and backlight usage). Please dispose of the used batteries properly, in accordance to the environmental laws in your area.

#### 4. Setting the Clock



(Fig. 3 Country Selection)

- Select the proper **Country or Continent**, by sliding the **Switch on the Left** to the correct position.
- Set the **Bottom Switch** in **LOCK** position.
- Push **Reset** button to activate the receiver, using a pointed object, such as a pen point.
- When setting or traveling between the different time zones in the **USA**, it is also necessary to select the right time zone.

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- **Note:** The clock will automatically default to Mountain Time, when the **Reset** button is pushed and the **Switch on the Left** is set for USA.
- To set for your time zone, slide the **Bottom Switch** to **ZONE/DST**.
- Push button **ZONE (Upper Left Button)** to select from Eastern, Central, Mountain or Pacific. It will change each time when the **ZONE** button is pressed. (If you do not want the zone to be displayed on the LCD dial, push **ZONE CLR (Upper Right Button)** after selection.) (In order to allow adjustment of setting, the **OFF-SET** time must be at 00.)

**Final Important Step:** Slide Bottom Switch, back to the LOCK position for the clock to operate.

To improve initial synchronization or when the signal strength falls to 2 bars or below, signal may be improved by twisting the base stand to the flat position.

#### 5. Synchronizing the Time

The synchronization procedure is **automatic** when the above steps are followed. To indicate that the receiver circuit is in operation, the Antenna Icon on the LCD blinks (see Fig. 4a).

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The bars facing the Antenna indicate the strength of the radio signal. No bar means there is no signal or only a very weak signal is being received. One bar indicates a weak signal and 5 bars indicate a very strong signal (see Fig. 4b). Use this radio signal strength indicator to find a location with the strongest reception.

**Strong Signals**, are normally found close to a window. In some areas where the signal is poor, you may need to position and rotate the clock until the best signal strength is obtained.



Fig 4a Blinking Antenna Icon (Clock attempting to synchronize)



Fig 4b Synchronization & radio Signal strength indication

**Do Not** put the clock on a desk or any other object with a metal top. If the clock is in close proximity to electrical appliances, such as TV, mobile phone or a computer, they may cause interference. Buildings with lots of steel construction may also interfere with the signal.

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**To force synchronization.** At any time you can force the clock to attempt synchronization. With the **Bottom Switch** at **LOCK** position and alarm switch at **AL. ON** or **AL. OFF** position, push **Upper Center (DST)** and **Upper Right (HOME)** buttons simultaneously.

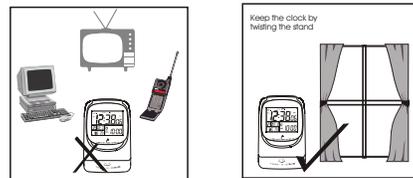


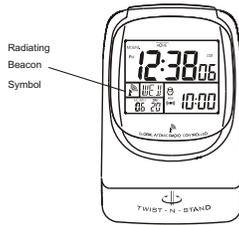
Fig.5 How to position the clock for the best signal reception

Once you have found the optimal position, leave the clock still, so it can pick up a good signal. Under normal conditions, it takes the clock only minutes to synchronize, but under less than perfect conditions, the clock may need to be left overnight to successfully receive a synchronized signal.

When the synchronization is achieved, it is symbolized by an image of an antenna and a radiating beacon (Fig. 6). A synchronized clock or manually set clock, attempts to refresh itself with a radio signal at least once a day, usually in the evening or early morning hours when the

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signal is clean and strong. If it fails for more than 48 hours, the Antenna Icon disappears. The clock will still function as a quartz clock, until it gets refreshed again. In most cases you will find the clock properly synchronized when you wake up the next morning.



(Fig.6 Example of asynchronized clock)

The clock is a radio device and like a cellular phone or a radio, if you travel to areas not served by one of the 4 transmitters and at certain times of the day, especially during day time, strong radio noise interference makes synchronization impossible. Under these conditions, the clock can be set to a manual setting, as described in Section #6 below and the clock will work accurately, just as any quartz clock.

## 6. Manual Setting

Once it is manually set, the clock will attempt to synchronize regularly for 3 days. If all attempts fail, the receiver is put into sleep mode to conserve power. The clock will function as a quartz clock until it is forced to attempt synchronization again. (See Section 5) ( In order to allow adjustment of setting, the OFF - SET time must be at 00.)

### To Set Time

- Slide the **Bottom Switch** to Time Set .
- Press DST/HR/DAY (**Upper Middle Button**) until the correct hour is set.
- Press HOME/MIN/YR (**Upper Right Button**) until the correct minute is set.
- Press 12/24H/MONTH (**Upper Left Button**) for AM/PM or 24 hour clock read-out preference.

### To Set Calendar

- Slide the **Bottom Switch** to CALENDAR.
- Press HOME/MIN/YR (**Upper Right Button**) until the correct year is set.
- Press 12/24H/MONTH (**Upper Left Button**) until the correct month is set.
- Press DST/HR/DAY (**Upper Middle Button**) until the correct day is set.

## To Set DST (Daylight Savings Time)

This function does not apply to all countries or states in the USA. However, for those for which it applies, follow these instructions to set this clock to Daylight Savings/Standard Time.

- Slide the **Bottom Switch** to ZONE /DST position.
- Press DST ( **Upper Middle Button** ) to indicate if the clock is in DST time.

**Final Important Step:** When done, slide **Bottom Switch** back to the LOCK position, for the clock to operate and to be able to pick up signals when in range again.

## 7. Alarm Setting

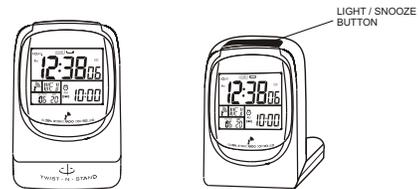
- Slide the Alarm Button (**Middle Switch**) to AL. SET position.
- Press the DST/ HR /DAY ( **Upper Middle Button**) to set the Alarm hour.
- Press the HOME / MIN /YEAR ( **Upper Right Button**) to set the Alarm minute.
- Slide the Alarm Button (**Middle Switch**) to ON Position.

### To turn off Alarm,

- For a five minute snooze , press the **Light / Snooze** button on top of the clock.
- Slide the Alarm Button (**Middle Switch**) to **OFF** to permanently turn off the Alarm.

## 8. Back Light and Snooze Functions

- **LIGHT** - To see the time in the dark, push the **LIGHT/SNOOZE** button on top to light up the dial.
- **SNOOZE** - When the alarm sounds, to get a little extra sleep and to stop the sound temporarily, without permanently turning off the alarm, push the **LIGHT/SNOOZE** Button on top. The SNOOZE function allows extra 5 minutes of sleep, before the alarm sounds off again. This can be repeated 4 times, at 5 minute intervals, before the Alarm function is turned off.



(Fig.7)

**Note:** Back light operates only when the clock base is twisted to a standing position. This is a safety feature to prevent from accidentally depressing the switch and draining the battery power when traveling.

