

# DTZ 10 STOPWATCH OPERATING INSTRUCTIONS

## FEATURES

### CHRONOGRAPH

- 500 memories
- Segregated memory (capability to memorize LAP times of different races)
- User Selectable LAP/SPLIT or LAP/SPEED display
- Average and best lap time display
- Automatic release of LAP time after 10 seconds to allow progress monitoring.

### TIMER

- Dual timers which start one after another for use in training programs.
- Can be used as ordinary countdown timer if 2nd timer is not set

### CLOCK

- Hour, minute, seconds, month, date, day and alarm
- 12/24 hour and month/date or date/month display user selectable

### CHRONOGRAPH OPERATION

- Press C to go to the CHRONOGRAPH MODE.  
The display as shown in Fig. 2. Press B to start.

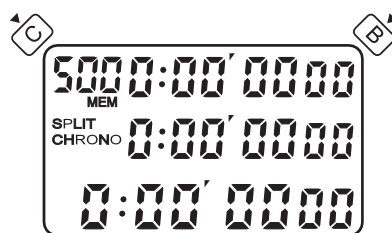


Fig. 2

- Press B to get the 1st LAP time. The LAP time is shown at the top row, the SPLIT time at the middle row and the running total time is shown at the lower row, as shown in Fig.3.



Fig. 3

- 10 seconds later the display will automatically be released to show the running LAP and SPLIT times to allow the user to keep track of progress, as shown in Fig. 4.



Fig. 1

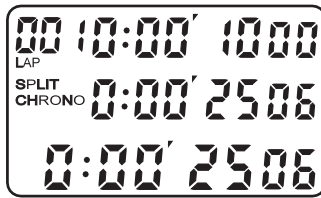


Fig. 4

- Press B to display the 2nd LAP time.



Fig. 5

- Press A to stop.

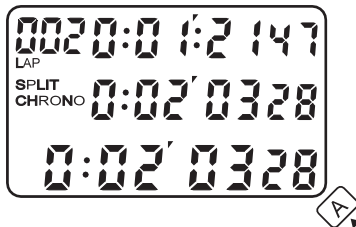


Fig. 6

- Press A to reset and be ready for the next race, as shown in Fig. 7. The counter at the top left corner displays the memory left for further races. Further races can be recorded by pressing B and A buttons as above.

- since some memories are used for memorizing the date and number of the race, the memory left is not shown as 498.

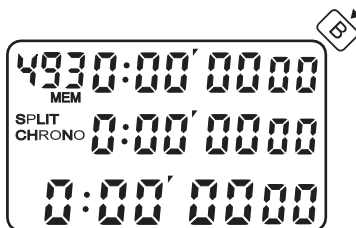


Fig. 7

- Press D to recall data stored. The display which we call the RACE RECORD is as shown in Fig. 8. The display shows the date in which the race was recorded and MCH-001 (MSP for SPEED mode) stands for the first race recorded in LAP/SPLIT mode at that date.

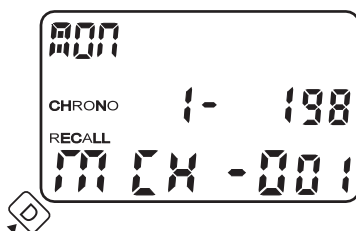


Fig. 8

- Pressing A button when the stopwatch is displaying the RACE RECORDS will show the next RACE RECORD (if there is) and the LAP TIMES in this RACE RECORD can be recalled by pressing D.
- Pressing and hold B button when the stopwatch is displaying the RACE RECORDS will clear the memories in that race record ( when the contents in this race record are cleared the display will show CLEARED and sounds a long beep, if B is released before ED appears the memories will not be cleared ) and continuously holding B button after this will clear the memories of all races (display will show ALL CLEARED and display will return to as shown in Fig.2. Memories are available for storage when they are cleared.
- Press D again to recall the 1st LAP data, as shown in Fig.9.

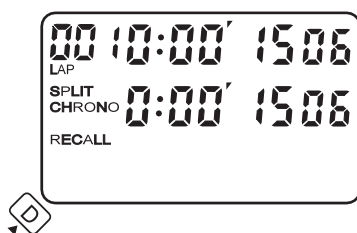


Fig. 9

- Press D to recall the 2nd LAP data, as shown in Fig.10.

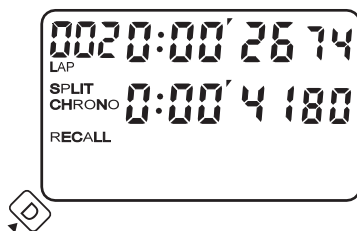


Fig. 10

- Press D again shows the stopped time, Fig. 11.

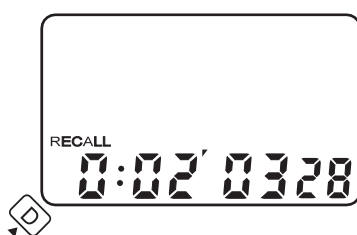


Fig. 11

- Press D again to show the average LAP time, as shown in Fig.12.

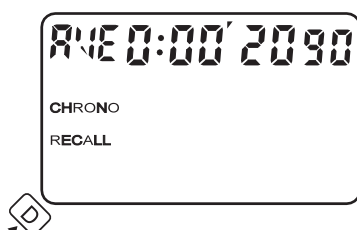


Fig. 12

- Press D again to show the Best LAP time, as shown in Fig.13.

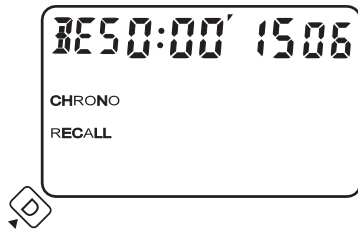


Fig. 13

- The AVERAGE calculation and BEST record do not take into account the last section of time before STOP. Therefore, in order for the stopwatch to keep track of the average and best records of all Laps, always use the A button until the end of the race.
- Pressing D again will go to the next race records or return to the 1st race records (if there is no further race).
- In the CHRONO MODE before the start of a race, such as in Fig.7, push and hold A for 2 seconds will go to the SPEED SET mode as is shown in Fig.14. The first digit in the lowest row is flashing to indicate setting of the thousandth digit of distance. Push B to set and A to select the next digits. The highest setting for distance is 9999.999. After the digits are set press A again to set the TIME unit with the top left corner HR flashing. Use B to set to HR (for /hour), MIN (for /minute) or SEC (for /second). When the distance and time unit are set, press C button to return to the SPEED MODE (Fig. 15). (Pushing C button anytime during the setting will return to the SPEED mode).

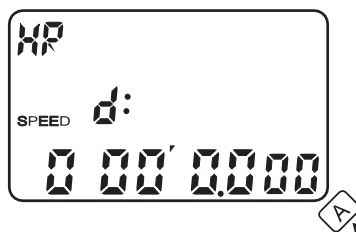


Fig. 14

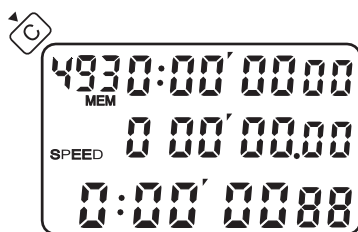


Fig. 15

- Press B to start, the display is as shown in Fig.16.

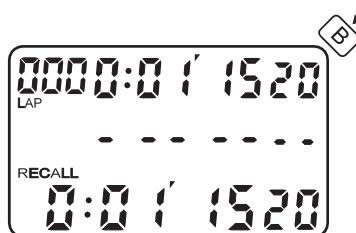


Fig. 16

- Press B to get the 1st LAP time at the top row and the speed at the middle row, as shown in Fig.17. If for example the distance is set to 200 meters and time unit set is in seconds, the speed calculated from a LAP time of 17.09 seconds is 11.70 m/sec. Using the B button the LAP times and their corresponding speeds can be displayed. Recall operations in the SPEED mode are the same as that in the LAP/SPLIT mode.

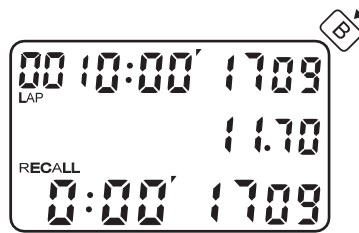


Fig. 17

- BASE 3 STROKE/FREQ-- if the distance is set to 180 and time unit to seconds, the speed reading for 3 strokes gives the number of strokes / minute.
- MEMORY USED UP-- When all the memories have been used the 3 digit LAP counter at the top left corner will start blinking to indicate all memories have been used up. All further LAP memories will not be recorded in the memory unless some memories are cleared as previously indicated. When there is no memory left pressing B to start a race will sound 4 short beeps.
- Do not leave the stopwatch running if not in use as that drains a higher power from the battery.

## TIMER OPERATION

- Press C button until the stopwatch goes to the TIMER mode. The display is as shown in Fig.18. The top row is the display for the 1st timer and the middle row is the display for the 2nd timer.

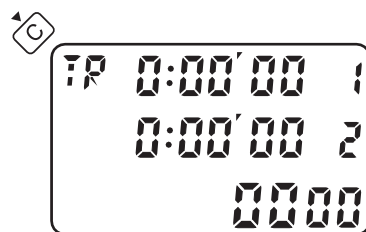


Fig. 18

- Press and hold A button for 2 seconds to go into the SET TIMER mode with the hour digit of the 1st timer blinking. Press B button to set to desired hour for countdown. Press A to go to the first digit in minutes and press B to set minutes. Similarly by using A and B buttons the desired countdown times for the 1st and 2nd timers can be set.
- Pressing C button once any time during this TIMER setting sequence will complete the setting and the timer is ready to start upon pressing the B button.

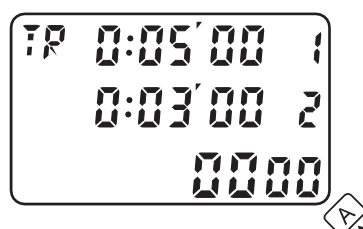


Fig. 19

Press B to start countdown with the “1 ” at the top right corner blinking and the timer setting counting down. When the 1st timer approaches zero, the timer gives 4 beeps and the 2nd timer starts counting down immediately. When the 2nd timer approaches zero, it gives 2 beeps and the 4 digit counter at the lowest row advances by 1 automatically. At any time during countdown pressing A will stop counting.

If only the 1st timer is set the timer is used as an ordinary countdown timer and will give 5 times 4 beeps when the set time is up. The 4 digit counter also advances by 1 automatically when the timer reaches zero.

## TIME

Press C to go to the TIME MODE. The display is as shown in Fig.20.

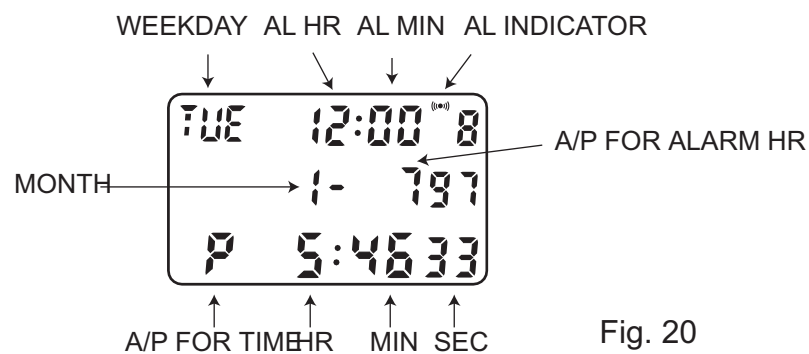


Fig. 20

Press and hold A button will go into the TIME SET mode with the AL HOUR blinking. Press B to set the AL HOUR. Press A to select digits in the following sequence: AL HR, AL MIN first digit, AL MIN 2nd digit, AL OFF/ON, YEAR last digit, YEAR 1st digit, MONTH, DATE, 12/24HR selection, HOUR, MIN 1st digit, MIN 2nd digit, and SECONDS. Press B to set the blinking digits.

Pressing C any time during this setting sequence will complete the setting procedure and return to the normal TIME display as shown in Fig.20. If 12HR option is selected the calendar will be shown as MONTH/DATE/YEAR and time will be displayed in 12 HOUR system. If 24HR option is selected, the calendar will be displayed as DATE/MONTH/YEAR and time will be displayed in 24HOUR system.

The calendar automatically adjusts for weekday and odd and even months including February of leap years up to year 2089.

Press D in the TIME mode to arm or disarm the alarm. When the alarm is armed the alarm indicator will be turned on and the alarm will sound at the preset alarm time.

## CARE OF YOUR WATCH

### - WATER-RESISTANCE

The stopwatch is designed to withstand accidental contact with water such as splashes or rain, but it is not designed for use in water. Do not operate the buttons when the stopwatch is wet.

### - TEMPERATURE

Do not leave your watch under direct sunlight or in very high temperatures for a long time, or the display may become black. Do not leave your watch in very low temperature as this may cause a slight time loss or gain and the change of digits becomes slow. In both cases the above conditions will be corrected when the stopwatch returns to normal temperature.

### - SHOCKS

Be careful not to drop your watch or hit it against hard surfaces as it may cause mechanical damages.

### - STATIC ELECTRICITY

The integrated circuit in your watch can be affected by static electricity. If the static electricity is very strong a permanent damage can occur. Be careful of the screen of the TV set and the wearing of clothing made of synthetic materials in dry weather; in such cases a very strong static electricity can be generated.

### - MAGNETISM

Not affected.

### - CHEMICALS

Do not expose your watch to solvents such as gasoline and alcohol, spray of cosmetics, cleaners, paints etc as they may cause damage to the stopwatch.

### - BATTERY CHANGE

When the battery low indicator lights up, as shown in Fig.21, battery replacement is necessary.

1. Unscrew and remove the back cover.
2. Unscrew the battery contact.
3. Replace with fresh Lithium battery CR2032 or equivalent.
4. Use a small metal tool (such as a tweezers or screw driver) to momentarily short circuit the AC pad next to the battery.
5. Re-screw the back cover.

Remark : In the event that some wrong logic appears on the LCD, press and hold the A, B, C, and D buttons together for 2 seconds to reset the watch. If the fault still occurs, bring the watch to service.