



# HART 50 Lap Memory Stopwatch Instructions

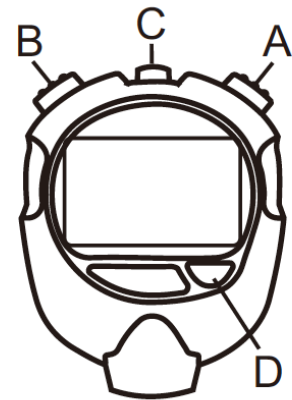
## Push Buttons Instruction

<b>A</b>	START/STOP/SET	<b>C</b>	RECALL	<b>E</b>	BACKLIGHT
<b>B</b>	RESET/LAP/ SPLIT/SELECT	<b>D</b>	MODE		

## Features

### CHRONOGRAPH

- Display of lap, split and running chronograph
- Measure up to 9 hours 59 minutes and 59.99 seconds
- 50 recallable lap and split memories
- Display of best(BES), slowest(SLO) and average (AVE) lap time for the laps traversed
- Memory recall after reset and during operation
- Lap counter(0~99~999)



### TIMER

- Two countdown timer are pre-settable and 9 hours 59 minutes 59 seconds for each.
- If no set of one countdown timer, the other one is workable.

### PACER

- Presetable from 10 beeps/minute to 320 beeps/minute.
- Display of pacer frequency, beep counter elapsed simultaneously.

### CLOCK

- Hour, minute, second, month, date, day, year and alarm, auto calendar.
- 12/24 hour and month/date or date/month display user option.

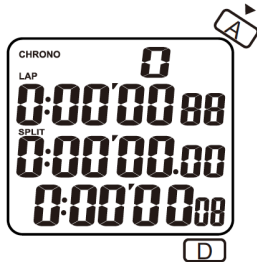
### BACKLIGHT(ONLY FOR STOPWATCH WITH 5 KEYS)

- Light for 5 seconds

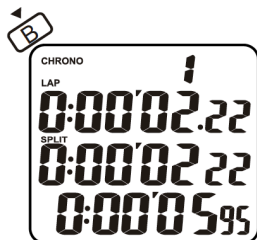


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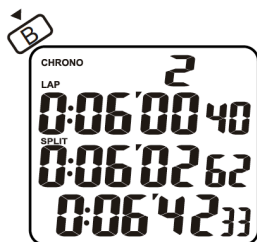
## Chronograph Operation



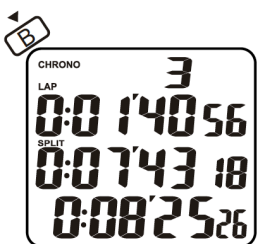
Depress D to select the operating mode.  
The chronograph indicator is shown.  
Depress A to start.



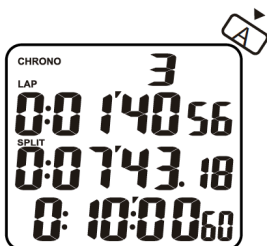
Depress B to read the 1st lap time. LAP is shown at the upper row, SPLIT is shown at the middle row and the RUNNING CHRONO is shown at the bottom row.



Depress B to display the 2nd lap time.  
The "2" digit in top line is the lap counter.



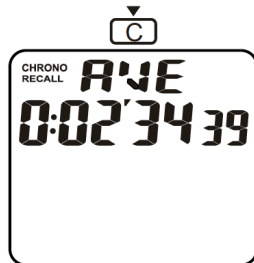
Depress B to display the 3rd lap time.



Depress A to stop counting.



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Depress C will display the average (AVE) lap time of the laps traversed. (Memory can be recalled anytime when the chronograph is either running or stopped)



Depress C will display the fastest or best (BES) lap time of the laps traversed.



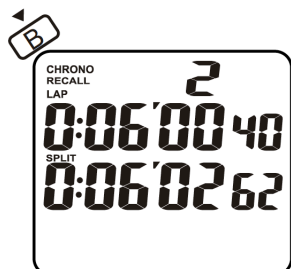
Depress C again will display the slowest (SLO) lap time of the laps traversed. Depression of C will display the average (AVE), best (BES) and slowest (SLO) lap time alternately.



Depress B to recall 1st lap data during the RECALL mode.



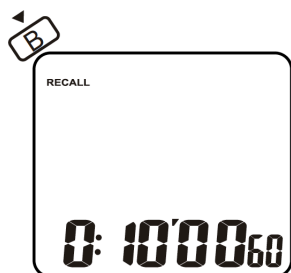
# HART 50 Lap Memory Stopwatch Instructions



Depress B again to recall the 2nd lap data.



Depress B again to recall the 3rd lap data.



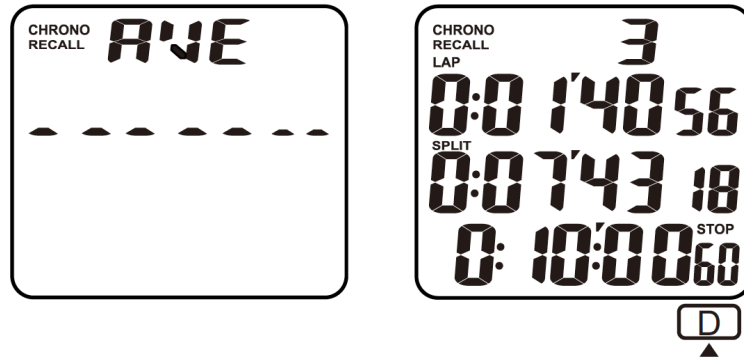
Depress B again to recall the last stopped time.

## Remarks

1. With each press of B, the stored data are recalled successively in the following order: Lap/split **1 → 2 → 3 → ... → 10/20/30/50/60/80/100**
2. With each press of A, the stored data are recalled successively in the following order: Lap/split **10/20/30/50/60/80/100 → ... → 3 → 2 → 1**
3. If either lap or split is more than 9 hours 59 min 59.99 sec, the power of the computer will be exceeded and the AVE, the BES and the SLO information will be disabled and display as shown.



# HART 50 Lap Memory Stopwatch Instructions



3. If either lap or split is more than 9 hours 59 min 59.99 sec, the power of the computer will be exceeded and the AVE, the BES and the SLO information will be disabled and display as shown.

Another depression of D button will return the chrono to the stopped status. Depress A to restart counting or B to reset to "0"

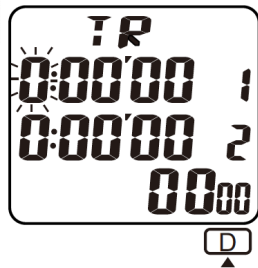
## Remarks

Even if the stopwatch is reset to "0", the stored data will not be erased and can be recalled by following the above procedure unless a new measurement. In that case, the STOP mark is not shown on the display.



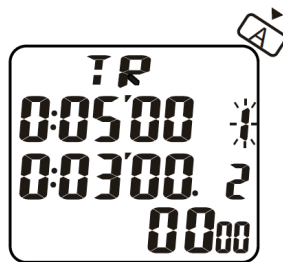
# HART 50 Lap Memory Stopwatch Instructions

## Timer Operation



Depress D button until the stopwatch goes to the TR mode. The top row is the display for the 1st timer and the middle row is the display for the 2nd timer.

Press and hold B button for 2 seconds to go into the SET TR mode with the hour digit of the 1st timer blinking. Press A button to set to desired hour for countdown. Press B to go to the first digit in minutes and press A to set minutes. Similarly by using B and A buttons, the desired countdown time for the 1st and 2nd timer can be set.



Press A 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.

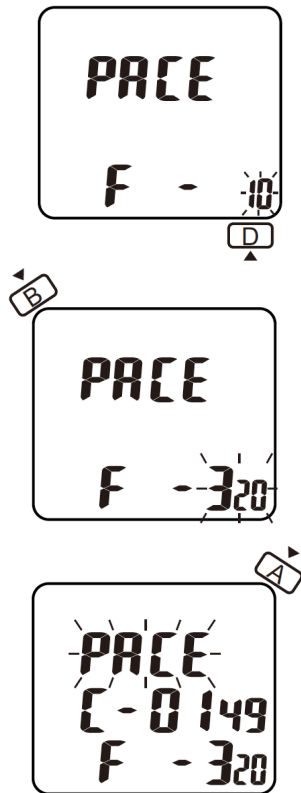
When the 2nd timer approaches zero, it gives 2 beeps and the 4 digit counter at the lowest row advances by 1 automatically. At anytime during countdown, pressing A will stop counting.

### Note

1. Set first countdown timer and no set for the second one, then the first countdown timer will circulate working.
2. Set second countdown timer and no set for the first one, then the second countdown timer as a noncirculate timer. When the countdown time is 0, the counter will advance 1 automatically, Press A to open the second countdown timer.
3. If no set for both countdown timers, it will default the first one as 10 hours, the second one keep 0. The countdown timer will circulate every 10 hours.



# HART 50 Lap Memory Stopwatch Instructions



## Pacer Operation

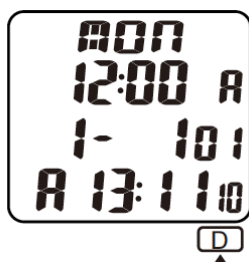
Depress D to select the PACER mode. The display will be as shown with the last 2 digits at the lower row blinking. At this status depress B will sequence the PACER frequency as follows: 10, 20, 30, 40, 60, 80, 120, 160, 200, 220, 240, 320

Depress A to start PACER. A beeping sound of 320 beeps/minute will sound. The beep counter is at the center and PACER frequency is at the lower row.

The beep counter has a range of 9999. Depress A to stop PACER.

**Remarks:** Pacer will be reset if stopwatch is switched to another mode.

## Clock And Alarm Time Adjust



Depress D to select CLOCK mode. The alarm hour, alarm minutes, month, date, day, year, hour, minute and seconds are displayed as shown.

Keep B pressed for 2 seconds to show the clock setting display. The alarm time HOUR digits start flashing. Time setting can be done by means of depressing B to select digits and A to advance digits.

**Remarks:** A alarm is automatically armed if alarm hour or minute has been set. Alarm can also be armed or disarmed by depressing C at normal time mode. When alarm is armed "11(●)11" will be on the display and when not, "11(●)11" will be not on the display. When reach to alarm time it will sound for 60 seconds.




## Back Light Operation

Press E key to light the screen for 5 seconds.

**Remarks:** Backlight function is available for stopwatch with 5 keys

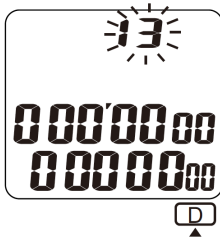
## Battery Replacement

When low battery symbol “” appears, you need to replace the batteries. Replace CR2032 lithium battery or other equivalent.

## Cut- Off The Display Operation

1. When the stopwatch is during transportation or in stock, the display can be set at CUT-OFF to save the battery.
2. In any mode, press button A and B together for more than 3 seconds, then release button B and keep button A, the display will be cut-off. The clock will work normally and other functions will be reset.
3. In the mode of CUT-OFF, press any button for more than 1 seconds to open the display automatically.

## Display Contrast Control Operation



1. In any mode, press D button for 5 seconds to enter the display contrast control.
2. The first row's contrast control digits blinking, second and third row display zero, press A to advance, press B to reduce, the adjustment range is 0-15. If no operation for 1 minute, or press D, it will exit the contrast control. And default contrast control is 13.





# HART 50 Lap Memory Stopwatch Instructions

## Care And Maintenance

1. 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.
2. The operation temperature range is  $-5^{\circ}\text{C}$ ~ $50^{\circ}\text{C}$ . Do not leave your stopwatch under direct sunlight or in very high temperature for a long time, the display may become black. Do not leave your stopwatch 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.
3. The stock environment needs to be ventilated and dry with the temperature range  $5^{\circ}\text{C}$ ~ $35^{\circ}\text{C}$ , relative humidity less than 70%. Please avoid to stock the stopwatch together with other goods of corrosive gas.
4. The integrated circuit in your stopwatch 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 material in dry weather, in such case a very strong static electricity can be generated.
5. Be careful not to drop your stopwatch or hit it against a hard surface, as it may cause a mechanical damage.
6. Do not expose your stopwatch to solvents such as gasoline and alcohol, spray of cosmetics, cleaners, paints etc, as they may cause damage to the stopwatch.