

Robic®

SC-899 Triple Timer-Stopwatch, Speed Timer and Countdown
 Use as a Single, Double or Triple Timer
 USER'S INSTRUCTIONS ©MBI Corp.

INTRODUCTION

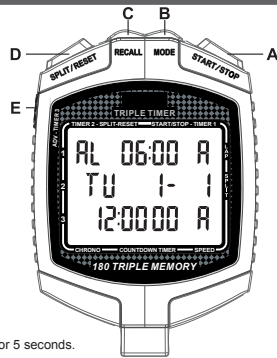
Thank you for purchasing the Robic SC-899—Triple Timer. Your purchase brings you a reliable, World-Class Timer which measures performance for a wide array of sports and many other activities. Please become familiar with its operation so you can enjoy its many fine features:

FEAUTES & FUNCTIONS

- Time up to three (3) competitors at once...with a single timer...up to 540 memory recall!
- You can look at results in more ways than ever before with the Robic SC-899.
- Best of all, set it up exactly the way you want.
- The SC-899 has three (3) fully loaded time keeping modes:
 1/ Chronograph (Stopwatch);
 2/ Speed Timer in mph or kph
 3/ Countdown Timer (Shows time remaining).
 You can choose from:
- 1, 2 or 3 competitors at once
- Start the timers simultaneously (at the same time) or separately (at different times), it's your option
- Select from Lap or Cum Split running times
- 180 Memory Recall of all 3 timers, Review each without leaving the stopwatch.
- Use the memory while the timer is running, so you can immediately take another reading without changing modes.
- View the memory recall in ascending (1, 2, 3...) or descending (...3, 2, 1) order
- 1/100 second precision up to 60 minutes. Lap Counter to 999 readings.
- Program up to three (3) countdown timers to operate independently or simultaneously, they can loop or sequence through each time or stop at the end of the preset time.
- Speed timer in mph/kph...can be used at any speedway in the world...input distance to within 1/1000 of a mile or kilometer.
- Fastest, Slowest and Average Lap time and /or speed
- Each of the three timers takes up to 1000 readings, with Memory recall of the previous 180 readings.
- On-demand EL backlight for low light or no light use
- Water resistant design
- Time of day, alarm, calendar

LOCATION & OPERATION OF THE PUSHBUTTONS

- A:** [START/STOP] key
- B:** [MODE /SELECT] key
- C:** [RECALL/SET] key
- D:** [LAP-SPLIT/RESET] key
- E:** [ADVANCE] key



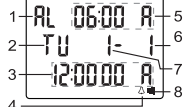
NOTE:

BACKLIGHT: Press and hold **B** for 3 seconds to activate the backlight for 5 seconds.

DISPLAY INDICATORS

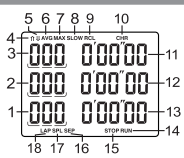
Time of Day Mode

1. Alarm icon
2. Weekday
3. Real time
4. Alarm on icon
5. Alarm time
6. Date
7. Month
8. Hourly chime on icon



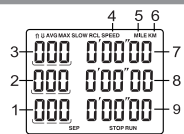
Stopwatch Mode

1. Lap/Split number of CH#3
2. Lap/Split number of CH#2
3. Lap/Split number of CH#1
4. Upwards
5. Downwards
6. Average
7. Maximum
8. Slowest
9. Recall
10. Chrono (Stopwatch icon)
11. Current lap/split time of CH#1
12. Current lap/split time of CH#2
13. Current lap/split time of CH#3
14. Run icon
15. Stop icon
16. Sep (Separate) icon
17. Lap icon
18. Split icon



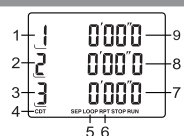
Speed Timer Mode

1. Speed number of SPd #3
2. Speed number of SPd #2
3. Speed number of SPd #1
4. Speed icon
5. MILE
6. KM
7. Time of SPd #1
8. Time of SPd #2
9. Time of SPd #3



Countdown Timer Mode

1. Countdown timer 1
2. Countdown timer 2
3. Countdown timer 3
4. CDT(countdown timer) icon
5. LOOP icon
6. RPT(Repeat) icon
7. Time of countdown timer 3
8. Time of countdown timer 2
9. Time of countdown timer 1

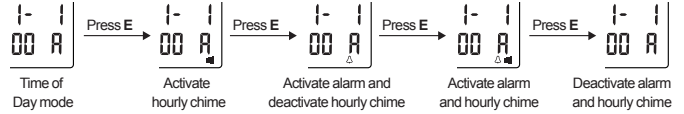


SETTING THE TIME OF DAY & CALENDAR

- In Time of Day, press and hold **C** for 3 seconds to enter time and date setting, Alarm hour flashes.
- Press **E** to advance the value.
- Press **B** to set to the next item, and press **E** to adjust the value. Setting sequence will be: Alarm hour>Alarm minute>Second>Hour>Minute>Month>Date>Weekday>12/24Hour format
- Press **C** at any time to exit the setting process.

ACTIVATE AND DEACTIVATE ALARM AND HOURLY CHIME FUNCTION

- In Time of Day mode, press **E>E>E** to activate or deactivate alarm and hourly chime function.



NOTE:

The alarm will sound for 20 seconds. You may press any button to silence the alarm.

NOTES ON OPERATING THE SPEED TIMER AND STOPWATCH

- From Normal Time mode, press **B**, "Chrono" displays for 2 seconds and stopwatch mode appears.
- The stopwatch can display up to 999 time readings and will recall the last 180 times from memory. For example, if the current display is the 250th lap, then 71 to 250 laps are held in memory. The SC-899 has 1/100 second resolution for 60 minutes then 1 second up to 24 hours

You may set up your SC-899 as a Single, Double or Triple Stopwatch. You may start all the Timers at the same time or separately. You may also select Lap or Split timing to appear. The processes are described below and also apply to the Speed Timer function.

Each timer has a dedicated pushbutton which will Start and Stop as well as take intermediate time/speed readings. **A** is for Timer 1, **D** is for Timer 2 and **E** is for Timer 3.

Should you select to use the SC-899 as a double or triple timer, it is recommended you use it in your hand a few different ways to determine how you feel most comfortable pushing the buttons.

In Double and Triple Timer options, the last press to Stop the timer takes 2 seconds. Should you need to take your last reading (finish times) in short sequence, press the Pusher for each timer as if you were taking any reading. Then, after the finish, proceed to press each Pusher for > 2 seconds to stop the timer. Ignore the final reading when you are reviewing the memory.

- In the Single timer option, you may switch modes by pressing **B**. While using double or Triple Timers, press and hold **B** > 2 seconds to change modes. The timer will continue to run.

NOTE:

The Speed Timer and Stopwatch modes will not operate simultaneously. To use the Stopwatch, the Speed Timer must be reset to all zeroes and Vice Versa for the Speed Timer Mode.

SELECT MEMORY RECALL DIRECTION FOR STOPWATCH

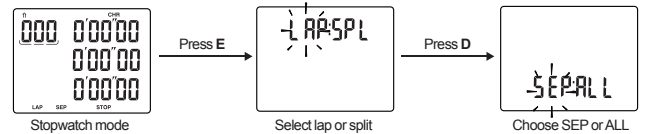
Operation condition	Operation	Select order	Display icon
In stopwatch, press D to clear all values.	Press C	Upwards	
		Downwards	

SETTING STOPWATCH OPTIONS

How to Set up your Stopwatch & Speed Timer

You may set up your SC-899 as a Single, Double or Triple Stopwatch. You may start all the Timers at the same time or separately. You may also select Lap or Split timing to appear. The processes are described below and also apply to the Speed Timer function.

- The timer must be stopped and Reset to all zeroes. If time values appear on the display, press and hold **A, D** and/or **E** for > 5 seconds to Reset to all zeros.
- Press and hold **C** for 3 seconds to enter stopwatch setting mode, and press **E** to select "LAP" (Lap Timing—The amount of time since the previous reading) or "SPL" (Split Timing—The amount of time from the start of the event).
- Once selected, the stopwatch will record time either as lap time or split time.
- Press **B** to step to number of stopwatch to activate: press **E** to choose CH-1 (single), CH-2 (double) or CH-3 (triple) stopwatch/speed timer.
- Press **B** to step to "SEP" (Each timer starts with the press of its unique Pushbutton) and "ALL" (Each timer Starts with the press of **A**.) options, and press **E** to select your choice.



USING THE SC-899 AS A SINGLE STOPWATCH

The stopwatch records each Lap and Split Time up to 1000 readings. For example, if you would like to measure 4 lap or split time:

- In time of day mode, press **B** to enter stopwatch mode. Press **D** to Reset if needed.
- Press **A** to start timing. RUN indicator appears.
- Press **D** to record the time of each lap and split when completed, i.e. first lap/split, second lap/split, etc. Lap Counter increases by one each reading.
- Press **A** to record the fourth lap/split and stop measurement, **STOP** appears. The following illustrates this progression:



USING THE SC-899 AS A DOUBLE OR TRIPLE STOPWATCH

Set the stopwatch as CH-2 or CH-3.

Use **A** to operate stopwatch #1, use **D** to operate stopwatch #2, and use **E** to operate stopwatch #3.

For Dual timer, the top line displays stopwatch 1, middle line displays stopwatch 2, and bottom line displays time of stopwatch #1.

USING THE STOPWATCH WITH "SEP" OPTION

- SEP refers to starting the timers Separately:
- In stopwatch mode with the timers stopped, press and hold **A/D/E** for 5 seconds to reset to all zeroes.
- Press **A** to start stopwatch #1, **D** to start #2 or **E** to start #3. RUN indicator appears.
- Press **A, D** or **E** to take an intermediate time reading. The lap/split time and lap/split number appears. It remains displayed for 15 seconds after which the new running lap or Split time appears. You may also release the reading at any time by pressing **B**.
- After your final reading, Press and hold **A, D** or **E** for 2 seconds to stop the time.
- **STOP** indicator appears.

USING THE STOPWATCH WITH "ALL" OPTION

- ALL refers to starting the timers Simultaneously:
- In stopwatch mode with the timers stopped, press and hold **A/D/E** for 5 seconds to reset to all zeroes.
- Press **A** to start stopwatches #1, #2, and #3. **RUN** indicator appears.
- Press **A, D** or **E** to take an intermediate time reading. The lap/split time and lap/split number appears. It remains displayed for 15 seconds after which the new running lap or Split time appears. You may also release the reading at any time by pressing **B**.
- After your final reading, Press and hold **A, D** or **E** for 2 seconds to stop the time.
- **STOP** indicator appears.

MEMORY RECALL OF SINGLE DOUBLE OR TRIPLE STOPWATCH

You may access the Recall function at any time, whether the timer is running or stopped. To return to current timing and take a split, simply press the button associated with the timer TO TAKE A READING. Press **C** at any time to access the Memory recall. Continue to Press or Hold **C** to review the readings in this sequence:
Fastest lap/split of stopwatch #1, #2 and #3-->Slowest lap #1, #2 and #3--> Average Lap time #1, #2 and #3-->Recall up to previous 180 readings for each stopwatch #1, #2 and #3 The recall will occur in the order you selected, up or down.

OPERATING THE SPEED TIMER

- From Normal Time mode, press **B** twice, "**Speed**" displays for 2 seconds and Speed Timer mode appears.
- The speed timer can display up to 999 time & Speed readings and will recall the last 180 times from memory. For example, if the current display is the 250th lap, then 71 to 250 laps are held in memory. The SC-899 has 1/100 second resolution for 60 minutes then 1 second up to 24 hours

A speed timer computes speed of an object by timing it over a known distance and computing the speed in MPH or KPH. You must input a distance for the Speed Timer to operate. If no distance is entered, the SC-899 speed timer will not operate.

Lap Speed, time and number will appear in this mode.

You may set up your SC-899 as a Single, Double or Triple Speed Timer. You may start all the Timers at the same time or separately. You may also select Lap or Split timing to appear. The processes are described below and also apply to the Speed Timer function.

Each timer has a dedicated pushbutton which will Start and Stop as well as take intermediate time/speed readings. **A** is for Timer 1, **D** is for Timer 2 and **E** is for Timer 3.

In Double and Triple Timer options, the last press to Stop the timer takes 2 seconds. Should you need to take your last reading (finish times) in short sequence, press the Pusher for each timer as if you were taking any reading. Then, after the finish, proceed to press each Pusher for > 2 seconds to stop the timer. Ignore the final reading when you are reviewing the memory.

- In the Single timer option, you may switch modes by pressing **B**. While using double or Triple Timers, press and hold **B** > 2 seconds to change modes. The timer will continue to run.

SETTING UP THE SPEED TIMER OPTIONS

- To set up your speed timer, make certain all values are reset to zeroes. If time values appear, Stop the timing and reset by Holding **A, D** and **E** for 5 seconds each.
- Press and hold **C** for 3 seconds to enter speed timer setting mode, unit digit (KM/MILE) appears flashing. Press **E** to adjust it.
- Press **B** to step the next unit of measure, and press **E** to adjust it.
The setting sequence will be: KM/MILE--> hundreds of distance--> tens of distance-->units of distance--> tenths of Distance-->hundredths of distance--> thousandths of distance-->SPd (Speed timer) -1 for single speed timer--2 for double speed timer --3 for triple speed timer-->SEP starts timers Separately--ALL starts timers simultaneously.
- Press **C** at any time to confirm and exit the setting process.

USING THE SINGLE SPEED TIMER

The Speed Timer computes speed as a function of time over distance. If you wish to measure 4 lap time and speed, proceed as follows:

- In speed timer mode, press **C** to clear the values.
- Press **A** to start counting, with "**RUN**" indicator appears.
- Press **D** to record the time you spend on each lap when you finish first lap, second lap and third lap. The speed in MPH/KPH, lap time and lap number will appear. The running time of the current lap will appear in the lower row of the display for each lap.
- Press **A** to record the fourth and final lap; "**STOP**" indicator appears.

USE SPEED TIMER-DUAL OR TRIPLE TIMERS

Set the SC-899 as a Double or Triple Speed Timer.

- Use **A** to operate speed timer #1, use **D** to operate speed timer #2, and use **E** to operate speed timer #3. Pressing the button associated with each timer at the completion of the lap will display the lap speed, time and number. Upon completion Press and hold the pusher for > 2 seconds to stop timing. Do this after your final Lap reading.
- For Double Speed timer, the top line displays speed and lap # of timer 1, middle line displays speed and lap # of timer 2, and bottom line displays Lap time of speed timer #1.

USING THE SPEED TIMER WITH "SEP" OPTION

SEP refers to starting the timers Separately:

- In speed mode with the timers stopped, press and hold **A/D/E** for 5 seconds to reset to all zeroes.
- Press **A** to start stopwatch #1, **D** to start #2 or **E** to start #3. **RUN** indicator appears.
- Press **A, D** or **E** to take an intermediate time reading. The lap/speed & time and lap number appears. It remains displayed for 15 seconds after which the new running lap or Split time appears. You may also release the reading at any time by pressing **B**.
- After your final reading, Press and hold **A, D** or **E** for 2 seconds to stop the time.
- **STOP** indicator appears.

USING THE SPEED TIMER WITH "ALL" OPTION

ALL refers to starting the timers Simultaneously:

- In speed timer mode with the timers stopped, press and hold **A/D/E** for 5 seconds to reset to all zeroes.
- Press **A** to start stopwatches #1, #2, and #3. **RUN** indicator appears.
- Press **A, D** or **E** to take an intermediate time reading. The lap speed & time and lap number appears. It remains displayed for 15 seconds after which the new running lap or Split time appears. You may also release the reading at any time by pressing **B**.
- After your final reading, Press and hold **A, D** or **E** for 2 seconds to stop the time
- **STOP** indicator appears.

MEMORY RECALL OF SINGLE DOUBLE OR TRIPLE SPEED TIMER

You may access the Recall function at any time, whether the timer is running or stopped. To return to current

timing and take a split, simply press the button associated with the timer TO TAKE A READING.

Press **C** at any time to access the Memory recall. Continue to Press or Hold **C** to review the readings in this sequence:

Fastest lap/split of stopwatch #1, #2 and #3-->Slowest lap #1, #2 and #3--> Average Lap time #1, #2 and #3-->Recall up to previous 180 readings for each stopwatch #1, #2 and #3 The recall will occur in the order you selected, up or down.

OPERATING THE COUNTDOWN TIMER

- In Time of Day mode, press **B** two times, "**Countdown**" displays for 2 seconds and enter countdown timer mode. Bracket under CDT#1 flashes.
- If time of timers is 00hour 00minute 00second, timer function is deactivated.
- The maximum time to set for each timer is 23hours 59minutes 59seconds 9/10second.
- Counting accuracy is 1/10second.

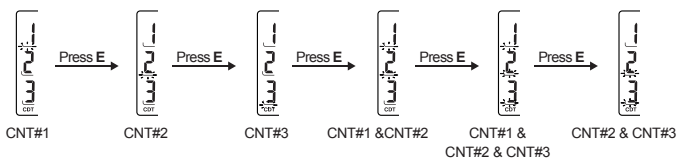
SETTING THE COUNTDOWN TIMER OPTIONS

- In countdown timer mode, press and hold **C** for 3 seconds to enter countdown timer setting mode, "SEP/LOOP" flashes.
- Press **E** to select SEP(Separate) or LOOP.
- Press **B** to step to the next item, and press **E** to select the items.
- Press **B** to step to hours of CDT #1, and press **E** to select hours. Repeat it to set time for countdown timers. Press **C** at any time to exit setting.

Setting sequence will be: SEP(Separate)/LOOP>STOP/RPT(Repeat)> CDT#1 hours >CDT#1 minutes >CDT#1 seconds> CDT#1 1/10 seconds> CDT#2 hours> CDT#2 minutes> CDT#2 seconds> CDT#2 1/10 seconds CDT#3 hours> CDT#3 minutes> CDT#3 seconds>CDT#3 1/10 seconds

USING THE COUNTDOWN TIMER

- In countdown timer mode, press **E** to activate timers. Brackets under the number of activated countdown timer will keep flashing.
The sequence will be: CDT#1 only>CDT#2 only> CDT#3 only> CDT#1 & CDT#2> CDT#1, CDT#2 & CDT#3> CDT#2 & CDT#3. Please refer to the illustration:



NOTE:

You must select the Countdown Timer Sequence while the timers have stopped and been reset. You cannot change the sequence while the timers are active.

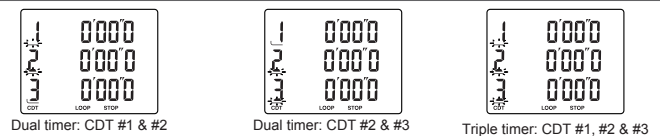
TO OPERATE AS A SINGLE TIMER

- Activate only CDT #1, CDT #2 or CDT #3. Press **A** to start or to stop the countdown timer.
- When timer is counting down, press **A** to stop, the time remaining will be displayed.
- Press **A** to Stop and Restart the Countdown Timer as often as necessary.
- Press **D** to clear the remaining time and reset to the pre-set time.

NOTE:

After setting LOOP and STOP for single timer, when timer counts to 00hour 00minute 00second, the timer utters beep sound and timer stops.

TO OPERATE DUAL TIMER OR TRIPLE TIMER



Countdown Timer with SEP (Separate) and STOP Options.

- In countdown timer mode, press **A** to start running timers.
- Timers stop when their time counts down to all zeroes.

Countdown Timer with SEP (Sarate) and RPT (Repeat) Options

- In countdown timer mode, press **A** to start Counting down timers.
- Upon completion, (all zeroes), the countdown sequence will repeat automatically.
- Press **A** to Stop and Restart the timers as necessary.

Countdown Timer with LOOP and STOP Options

- Press **A** to activate CDT#1. When CDT#1 counts down to all zeroes, the completion beep tone will sound.
- Then CDT#2 starts running. When CDT#2 counts down to all zeroes, the completion beep tone will sound.
- Then CDT#3 starts running. When CDT#3 counts down to all zeroes, the completion beep tone will sound.. All timers stop counting down and Rest to their pre-set time.

Using the Countdown Timer with LOOP and RPT options

- Press **A** to activate CDT#1. When CDT#1 counts down to all zeroes, the completion beep tone will sound.
- Then CDT#2 starts running. When CDT#2 counts down to all zeroes, the completion beep tone will sound.
- Then CDT#3 starts running. When CDT#3 counts down to all zeroes, the completion beep tone will sound.
- Then sequence through the Loop is CDT#1>CDT#2>CDT#3>CDT#1.
- Pressing **A** at any time will stop and restart the timers as necessary.

NOTE:

Completion Alarm Beep sounds for 20 seconds if the preset time is more than one minute. Under 1 minute, the completion alarm sounds for one second.

ACTIVATING THE BACKLIGHT

In any mode, press and hold **B** for 3 seconds will turn on backlight for 5 seconds. Use the backlight only as necessary to save on the battery life.

BATTERY REPLACEMENT

If there is no display on the LCD or the display becomes dim, remove the screws at the back of the unit and replace with a new CR2032 battery at once.

NOTE:

Attention! Please dispose of the used unit or battery in an ecologically safe manner.



Robic SC-899 and SC-889

Stroke Rate Calculation

Stroke rate calculation is achieved by timing one, two or three stroke cycles. By entering the respective value, the Robic timer will display the rate in **Strokes per Minute**

Mode into the "SPEED" mode

You may calculate stroke rate based on one, two or three stroke cycles. Since we are not interested in MPH/KPH, we will disregard those indicators.

Following the instructions in the "Enter Distance" section, please enter the following values for their respective stroke cycles:

One (1) stroke cycle . . . please enter 0.017
Two (2) stroke cycles . . . please enter 0.034
Three (3) stroke cycles . . . please enter 0.050

To measure stroke rate, simply START the timer by pressing the appropriate pushbutton at the beginning of the cycle.

STOP the timer by pressing the pushbutton again at the completion of the cycle.

The number displayed in the upper row of the display is the **Stroke Cycle Rate per Minute**.
Take as many readings as necessary. The **Average and Fastest** rates can be displayed by pressing "F".

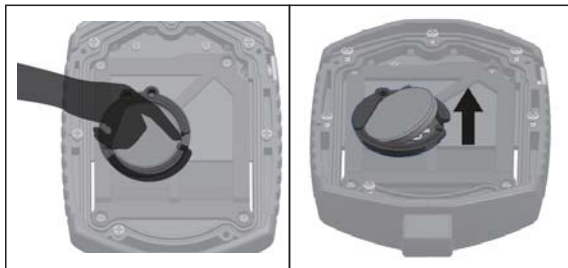
Robic® timer SC-899 / SC-889 SC-877

How to replace the battery



①

Unscrew the screws anticlockwise with a screwdriver and remove the cover.



②

Press the clip down and the battery pops out. If not, keep pressing the clip down, meanwhile use a sharp pin to lever the battery away.



③

Insert one new CR2032 battery, the side with "+ CR2032" should face outwards.



④

Replace the lanyard and the cover, and screw the screws back.