



TRACEABLE® 60-MEMORY STOPWATCH INSTRUCTIONS

SPECIFICATIONS

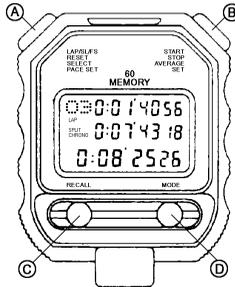
Display: 3-line 3/16" 7-digit LCD
Range: 9 hr, 59 min, 59 sec, 99 hundredths

Resolution: 0.01 sec

Accuracy: 0.001%

Size / Weight: 2¼ x 2⅝ x ¾", 2 oz

Features: Single action, time-out, interval split, cumulative split and continuous rollover timing; memory recall; time-of-day clock; time-of-day alarm; date



QUICK REFERENCE (Figure 1)

- A. LAP/SL/FS** - Permits recording of up to 99 separate interval split (lap) times and cumulative split times while in Chronograph mode. If Memory Recall function is activated, LAP/SL/FS button recalls the fastest and slowest lap times recorded.
- RESET** - In Chronograph, Timer modes, permits resetting display to zero.
- SELECT** - Selects each digit for programming while in Clock and Timer modes.

- B. START** - Begins count-up while in Chronograph modes. Begins count-down while in Timer mode.
- STOP** - Halts count-up for a time-out while in Chronograph mode. Halts count-down while in Timer mode.
- AVERAGE** - Permits viewing the average lap time of laps traversed while in Chronograph mode and the Memory Recall function is activated.
- SET** - Advances each selected digit while in Clock and Timer modes.
- C. RECALL** - Activates/deactivates time-of-day alarm while in Clock mode. Permits viewing all time-outs, interval split (lap) times, cumulative split times and the total elapsed time recorded while in Chronograph mode.
- D. MODE** - Permits switching between Clock, Chronograph, Timer and Pacer modes.

OPERATIONS

Clearing the Display to Zero

1. In Chronograph mode, verify timing operation is stopped and press RESET button to clear display to zero.
2. In Timer mode, verify timing operation is stopped and press RESET button. First press clears display to previously set time.
3. Press and hold RESET button for 2 seconds clears display to zero.

Clock Operation

1. Press MODE button until alarm time, date and time of day are displayed.

Chronograph (Stopwatch) Operation

Unit records up to 99 time-outs, interval split (lap) times and cumulative split times taken. With 60 memories available, it also permits recalling up to 59 timing events taken and total elapsed time recorded during chronograph operation.

Time-In/Time-Out Timing

1. Press MODE button until "Lap, Split, Chrono" appear on the display. Unit is in Chronograph mode.
2. Press START button to begin count-up. The bottom row begins recording total elapsed time.
3. Press STOP button to stop count-up for a time-out. "Stop" appears on the right side of bottom row to indicate a time-out is in progress.
4. Press START button to restart count-up. The bottom row resumes count-up from the point at which it was stopped. "Stop" no longer appears.

NOTE: Any number of time-outs may be taken by repeating steps 3 and 4 listed previously.

5. To reset chronograph, press the RESET button while count-up is stopped. This will clear the display to zero.

Continuous Timing

For timing that lasts over 10 hours, the unit will instantly roll over to zero when the maximum display is reached and will continue timing. Simply make note of how many units of 10 hours have elapsed.

Cumulative and Interval Split (Lap) Timing

Cumulative split timing measures partial times while the stopwatch continues to run and measure total elapsed time.

WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

TRACEABLE® PRODUCTS

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Traceable® Products is ISO 9001:2018 Quality-Certified by DNV and ISO/IEC 17025:2017 accredited as a Calibration Laboratory by A2LA.

2. Press SELECT button to select digits for setting in the following order: Alarm time, year, month, date, day, 12/24 hour, hours, minutes and seconds.
3. Press SET button to advance digits. Press and hold SET button for rapid advancement.
4. Continue pressing SELECT and SET buttons until the alarm, time of day and date are set as desired.

NOTE: Day indicators appear in the upper left corner and are abbreviated as follows: Monday (MO), Tuesday (TU), Wednesday (WE), Thursday (TH), Friday (FR), Saturday (SA), Sunday (SU).

5. Once all settings are entered as desired, press SELECT button to end clock setting process and to return to normal Clock mode. Or, press MODE button at any time while setting the clock to return to normal Clock mode.

Time-of-Day Alarm

Follow steps 1-5 of "Clock Operation" section to set the time-of-day alarm. The alarm is automatically activated when an alarm time is set.

To deactivate the time-of-day alarm, press RECALL button while in Clock mode. "AL" indicator, in the upper right corner of display, flashes to indicate time-of-day alarm is activated. "AL" indicator does not flash when alarm is deactivated.

When the alarm time is reached, three short beeps sound for 15 seconds. If the unit is not in Clock mode when the alarm time is reached, three short beeps sound once only.

Interval split (lap) timing measures each round of timing (non-cumulative).

1. Press MODE button until "Lap, Split, Chrono" appears on display. Unit is in Chronograph mode.
2. Press START button to begin count-up. The bottom row begins recording total elapsed time.
3. Press LAP button to record an interval split (lap) time and a cumulative split time. Interval split (lap) time is shown on the top row while the middle row shows cumulative split time.
4. Each press of the LAP button records a new interval split (lap) time and a new cumulative split time. Lap counter, located on left side of top row, keeps track of the number of interval split (lap) and cumulative split times taken.

NOTE: Up to 99 interval split (lap) times, cumulative split times and timeouts may be recorded but, since there are 60 memories, only the first 59 and the total elapsed time are shown during recall.

5. When all desired interval split (lap) and cumulative split times have been recorded, press STOP button to halt the count-up.
6. While count-up is stopped press RESET button to clear display to zero.

Recalling Cumulative Splits, Interval Splits (laps) and Time-Outs

Unit is equipped with a Memory Recall function that permits viewing up to 60 previously recorded interval split (lap) times, cumulative split times and time-outs when either running or stopped in Chronograph mode.

1. Verify unit is in Chronograph mode and at least one time-out or lap time has been recorded.
2. Press RECALL button to access Memory Recall function. At this point, count-up may be running or

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Dual Timer Operation

Unit permits setting any count-down time from 1 second to 9 hours, 59 minutes and 59.99 seconds. The top row is the display for the 1st timer and the middle row is the display for the 2nd timer. Unit automatically recycles upon completion of count-down and tracks the number of cycles completed.

1. Press MODE button until "TR" appears on left side of top row. Unit is in Timer mode.
2. Press and hold SELECT button for 2 seconds to go into the SET TIMER mode with the hour digit of the 1st timer blinking.
3. Press SET button to set to desired hour for countdown.
4. Press SELECT button to go to the first digit in minutes and press SET button to set minutes. Similarly by using SELECT and SET buttons the desired countdown times for the 1st and 2nd timers can be set.

NOTE: Pressing MODE button once any time during this TIMER setting sequence will complete the setting and the timer is ready to start upon pressing the START button.

5. Press START button 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.

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- stopped. "Recall" appears on left side of middle row. Interval split (lap) records are shown on the top row and cumulative split records are shown on the middle row. The lap counter indicates which lap record is being viewed. Time-outs are shown on the bottom row with a "STOP" indicator.
3. With each press of the RECALL button, unit cycles through all time-out, interval split (lap) and cumulative split records. Once all recorded memories have been displayed, the next press of the RECALL button returns unit to normal chronograph mode and "Recall" no longer appears.
 4. At any time, the memory Recall function may be halted by pressing the MODE button. This action returns display to normal Chronograph mode and "Recall" no longer appears.

NOTE: Up to 99 interval split (lap) times, cumulative split times and timeouts may be recorded but, since there are 60 memories, only first 59 and total elapsed time are shown during recall.

5. After stopping count-up, clear the display to zero by pressing RESET button.

Recalling Average/Fastest/Slowest Lap Times

At any time the Memory Recall function is activated, while the unit is in Chronograph mode, the fastest, slowest and average lap times recorded are available for viewing.

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NOTE: 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. If count-down is set for 29 seconds or less, one short beeps sound once when zero is reached even if the unit is in Timer Mode.

6. Press either RECALL, MODE, or RESET button to silence the sounding alarm.
7. Press STOP button to halt the count-down.
8. While count-down is halted, press RESET button to return to the previously set count-down time and to return bottom row to zero.
9. Press and hold RESET button for 2 seconds resets the display to zero.

ALL OPERATIONAL DIFFICULTIES

If this unit does not function properly for any reason, replace the battery with a new high-quality battery (see "Battery Replacement" section). Low battery power can occasionally cause any number of "apparent" operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

BATTERY REPLACEMENT

A faint display, incorrect display or no display are all indicators that the battery must be replaced. To replace the battery, remove the screws on the back of the unit. Remove the back cover.

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1. Verify unit is in Chronograph mode and a number of laps have been recorded (see "Cumulative and Interval Split (Lap) Timing" section).
2. Verify Memory Recall function is activated by ensuring "Recall" is on the left side of the middle row or press RECALL button to activate the Memory Recall function.
3. While Memory Recall function is activated, press the LAP/SL/FS button to view the fastest lap time recorded. "FS" is displayed. A second press of the LAP/SL/FS button displays the slowest lap time recorded. "SL" is displayed.
4. While Memory Recall function is activated, press AVERAGE button to view an average of all lap times recorded. "AV" is displayed.

NOTE: If the lap counter exceeds 99, or if a lap or split time is greater than 9 hours, 59 minutes, 59 seconds, the power of the computer has been exceeded and the "AV" information will be disabled. "AV—" is displayed. If a lap or split time is greater than 9 hours, 59 minutes, 59 seconds, the power of the computer has been exceeded and "SL" and "FS" information will be disabled.

5. Press RECALL button to return to normal Memory Recall function.
6. Press MODE button at any time to return to normal Chronograph mode. "Recall" will no longer be displayed.

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CAUTION: Take care to avoid dislodging parts inside.

Unscrew and remove battery contact. Replace the exhausted battery with a new lithium battery. Screw down the battery contact and replace the back cover, tighten and secure the screws. Replacement battery Cat. No. 1005.

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Calibration complies with ISO/IEC 17025, ANSI/NC SL Z540-1, and 9001



Cert. No.: 4040-1209600C

Traceable® Certificate of Calibration for Therm./Clock/Humidity Monitor

Manufactured for and distributed by : Traceable® Products 12554 Galveston Rd B230, Webster, TX 77598

Instrument Identification:

Model: 4040,90080-06

S/N: 210248494

Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Non-Contact Frequency Counter	26.662025	21 Apr 2021	1000453894
Digital Thermometer	221197993	14 Oct 2021	4000-11621504
Chilled Mirror Hygrometer	44654/2H3737	25 Nov 2021	17811

Certificate Information:

Technician: 126

Procedure: CAL-17

Cal Date: 27 Mar 2021

Cal Due Date: 27 Mar 2023

Test Conditions: 57.75%RH 22.6°C 1012mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
%RH	N.A.	N.A.		41.63	41	Y	37	47	0.74	>4:1
°C	N.A.	N.A.		23.25	22.7	Y	22.2	24.2	0.076	>4:1
sec/24hr	N.A.	N.A.		0.000	0.133	Y	-8.64	8.64	0.041	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement : (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ± U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2, Min=As Left Nominal(Rounded) - Tolerance; Max= As Left Nominal(Rounded) + Tolerance;

Nicol Rodriguez

Nicol Rodriguez, Quality Manager

Marisa Elms

Marisa Elms, Technical Manager

Note :

Maintaining Accuracy:

In our opinion once calibrated your Therm./Clock/Humidity Monitor should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Therm./Clock/Humidity Monitor change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

Issue Date : 27 Mar 2021

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