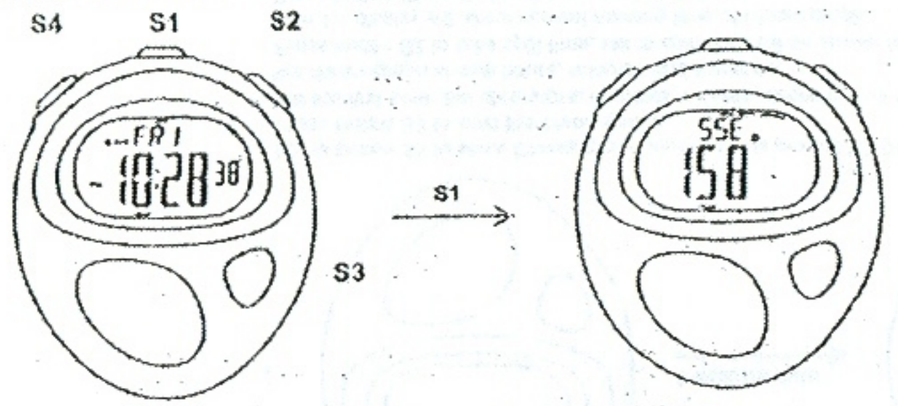
OPERATING INSTRUCTION FOR M02-195D

English

(A) FEATURES

M02-1950 is a digital compass that also provides time, chronograph, timer and alarm functions. The main features are listed as follow:

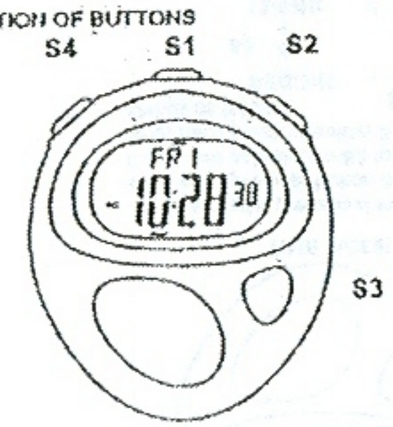


- 8 modes operation: Compass, Time, Date, Chronograph, Timer and Alarm.
- Electronic compass with digital direction indication in 16 positions together with degree.
- Time presents weekday, hours, minutes and seconds.
- Date presents weekday, month, day and year.
- 12/24-hour display formats selectable.
- Auto calendar from 2000-2059.
- 1/100-second chronograph with working range up to 24 hours.
- "Split" time can be taken.
- 1-second resolution timer with working range of 23 hours 59 minutes 59 seconds. User option for Count Down Stop, Count Down Repeat and Count Down Up function.
- 20 seconds daily alarm.
- Hourly chime signal, chime "on" with button confirmation sound.
- 3 seconds light up EL back light.

(B) EL BACK LIGHT

Press button S4 for EL back light with 3 seconds auto light up.

(C) BASIC OPERATION OF BUTTONS



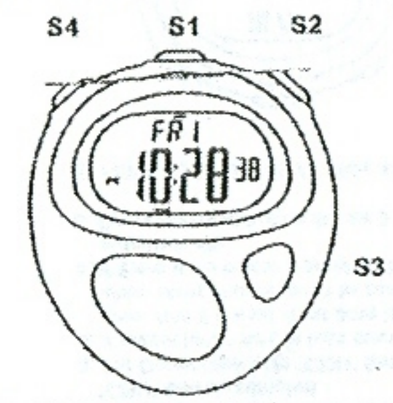
S1: - ENTER COMPASS MODE
- SHOW DIRECTION

S2: - TOGGLE TIME OR DATE
- START/SPLIT OF CHRONOGRAPH
- TIMER START
- SELECT ALARM OR CHIME
- TOGGLE ALARM AND CHIME ON OR OFF (PRESS AND HOLD)
- ADJUST SETTING (SET)

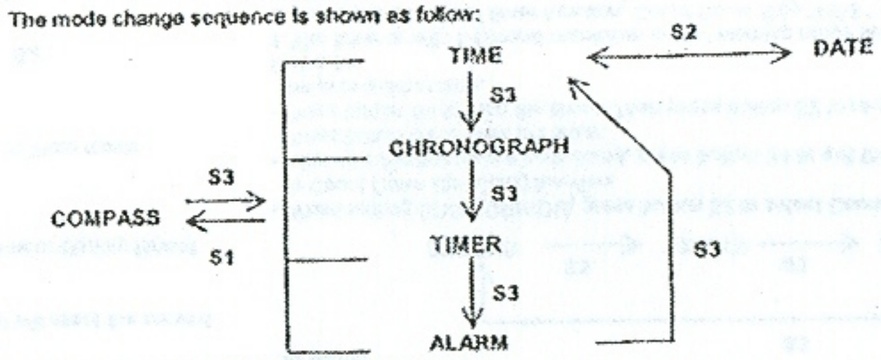
S3: - MODE CHANGE
- EXIT COMPASS MODE
- DIRECT CHANGE TO TIME MODE (PRESS AND HOLD)
- SELECT SETTING (SET)

S4: - EL BACK LIGHT
- START CALIBRATION (PRESS AND HOLD IN COMPASS MODE)
- SET (PRESS AND HOLD)
- STOP/RESET OF CHRONOGRAPH
- TIMER STOP
- RELOAD PRESET TIMER TIME
- EXIT (SET)

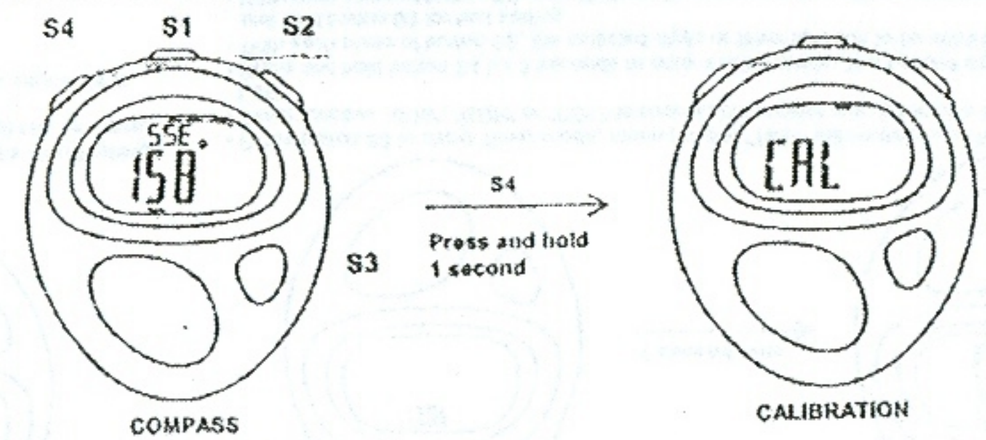
(D) MODE CHANGE OPERATION



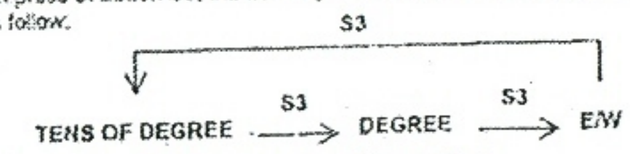
The mode change sequence is shown as follow:



(E) HOW TO CALIBRATE AND USE COMPASS



- Calibrate the compass before using.
- At any mode, press button S1 to enter Compass mode.
- Direction is shown.
- Select a place away from any magnetic or electronic devices (preferably open areas), press and hold button S4 for 1 second, and the compass will be ready for calibration with "CAL" displayed.
- Holding the watch on horizontal level or on top of the wooden table, rotate the watch slowly for 2 complete rotations (each must last for at least 15 seconds), then press button S4 to end the calibration and enter declination angle setting with the tens of degree digit flashing.
- With each press of button S2, the selected digit or E/W to be adjusted (flashing) can be made. Press and hold button S2 for fast setting.
- With each press of button S3, the next digit or E/W for setting (flashing) can be selected. The sequence is shown as follow:



- When setting E/W, press button S2 to toggle East or West.
- After all adjustments are completed, press button S4 to end setting ("END CAL" displayed) and return back to Compass mode.
- Holding the watch in a horizontal level, press button S1 and the direction of the LCD's 12 o'clock position will be detected and shown continuously for 10 seconds.
- To exit Compass mode, press button S3 and the watch will return back to the previous mode.

Cautious:

The compass is very sensitive to magnetic or electric fields, so you must avoid using or calibrating the compass near any magnetic or electronic devices, as these devices may affect the direction detected.

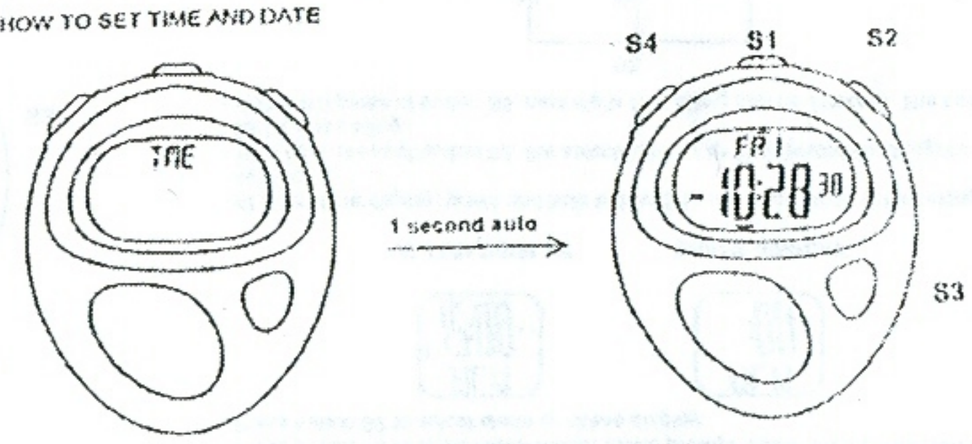
Remarks:

1. Calibration allows user to align the watch magnetic sensor with the earth's magnetic field so that the watch can detect correct direction, and this is recommended to be done in open areas.
2. Always keeps the watch in a horizontal level when using or calibrating the compass, otherwise it may result in wrong direction indication.
3. While calibrating the compass, if the watch is rotated less than 2 rotations or the time for each rotation is less than 15 seconds, then it may result in wrong direction indication.
4. With the declination angle added, a magnetic north will be adjusted by the clockwise shift or anti clockwise shift of this angle, giving the true north. The range of declination angle is 00° E to 99° E and 00° W to 99° W. And the declination angles for major world cities are listed as follow:

City	Declination Angle	City	Declination Angle	City	Declination Angle
Anchorage	22° E	London	4° W	Rio De Janeiro	21° W
Atlanta	4° W	Little Rock	3° E	San Francisco	15° E
Bombay	1° W	Livingston, MT	14° E	Seattle	19° E
Boston	16° W	Munich	1° E	Shanghai	6° W
Calgary	18° W	New York City	14° W	Toronto	11° W
Chicago	3° W	Orlando	5° W	Vancouver	20° W
Denver	10° E	Oslo	2° W	Washington DC	10° W
Jerusalem	3° E	Paris	2° W	Waterbury, CT	14° W

5. If "Err" is displayed, the compass needs to be calibrated again.
6. While calibrating the compass, press button S1 will end calibration ("END CAL" displayed) skipping the declination angle function. In this case, the declination angle is set to 0 degree.
7. While calibrating the compass, press button S3 will abort calibration and return back to Compass mode.
8. If there is no button operation for about 70 seconds in Compass mode, the watch will return back to the previous mode automatically.
9. If there is no button operation for 1-2 minutes while calibrating the compass, the watch will automatically abort calibration and return back to Compass mode.
10. If there is no button operation for 2-3 minutes in declination angle setting, the watch will end calibration automatically and return back to Compass mode.

(F) HOW TO SET TIME AND DATE



- Press button S3 to show Time mode, mode prompt "TIME" will be displayed for 1 second first