

Technical Letter

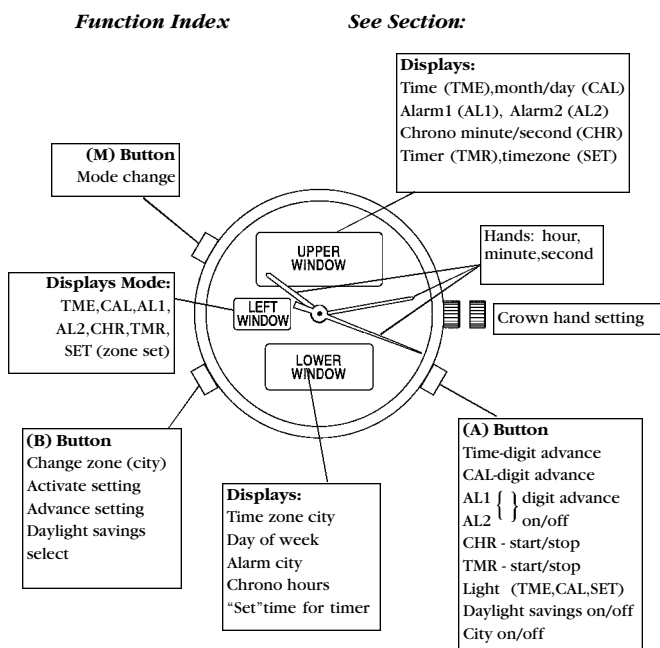
BOOK NO. 513M *Time Zone* MODEL CR60

Complete list of functions:

- Y2K (year 2000) compatible, up to year 2099
- Hand display for hours, minutes and seconds.
- Digital display for hours, minutes and seconds.
- Dual Digital Alarm (Each alarm has a different beeping sound).
- Digital Calendar display of date, month and weekday. No adjustment needed for short months or leap years.
- Digital Chronograph (Chrono) for measurement up to 24 hours; in hours, minutes, seconds and 1/100 seconds.
- Digital Count Down timer - up to 99 minutes in minutes and seconds.
- Time Zone (TZ) indicates time in 31 different cities and 24 Time Zones. Includes adjustment for Day Light Savings Time.
- Electro Luminescent (EL) back light for the digital display.
- Choice of 12-hour or 24-hour format.

Please refer to the diagram below during the setting of each function in the following sections "A" through "I".

USING THE WATCH



- | | |
|--------------------------------|---|
| Time setting-hands | A |
| Time setting-Digital | B |
| Calendar setting and use | C |
| Alarm setting and use | D |
| Using the Chronograph | E |
| Count down timer | F |
| Time zone and daylight savings | G |
| Night light | H |
| All reset function | I |
| Special Items | J |

TIME ZONE CHART

The following reference chart will be useful for setting the watch for sections: "B," "C" and "G."

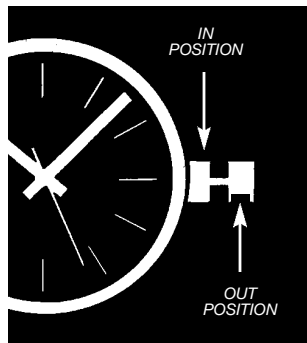
COMPARISON OF TIME ZONES IN VARIOUS CITIES (HOURS) **

| DISPLAY SHOWS: | CITY | TIME CHANGE | DISPLAY SHOWS: | CITY | TIME CHANGE |
|----------------|-----------------|-------------|----------------|-----------------------|-------------|
| UTC | Universal Time | +0 | TYO | Tokyo | +9 |
| LON | London | +0 | SYD | Sydney | +10 |
| PAR | Paris | +1 | NOU | Noumea | +11 |
| ROM | Rome | +1 | AKL | Auckland | +12 |
| CAI | Cairo | +2 | HNL | Honolulu | -10 |
| IST | Istanbul | +2 | ANC | Anchorage | -9 |
| MOW | Moscow | +3 | LAX | Los Angeles | -8 |
| KWI | Kuwait | +3 | DEN | Denver | -7 |
| DXB | Dubai | +4 | CHI | Chicago | -6 |
| KHI | Karachi | +5 | MEX | Mexico City | -6 |
| DEL | New Delhi | +5.5 | NYC | New York City | -5 |
| DAC | Dacca | +6 | YUL | Montreal | -5 |
| BKK | Bangkok | +7 | CCS | Caracas | -4 |
| SIN | Singapore | +8 | RIO | Rio de Janeiro | -3 |
| HKG | Hong Kong | +8 | BUE | Buenos Aires | -3 |
| PEK | Beijing | +8 | | | |

** Cities with daylight savings in the summer are printed in bold letters.

Section A.

SETTING THE HANDS



- Step 1.** When the second hand reaches the 60th second mark, pull the crown to the "OUT" position. All hands will stop.
- Step 2.** Turn the hands FORWARD (clock-wise) to set the time. In order to prevent the hands from jumping when the crown is pushed in, set the minute hand approximately 5 minutes ahead of the desired minute marker; then, gently turn back to the same minute marker.
- Step 3.** When the time standard by which you are setting your watch (telephone beep, etc.) reaches the 60th second, push the crown to the "IN" position without turning. All hands will start instantly.

Section B.

SETTING THE DIGITAL TIME

When the time is set for any one of the 30 cities or "UTC" (Universal Time Co-ordinated), the time is automatically set for all the cities (and UTC). Proceed as follows:

1. Push button (M) repeatedly until "TME" appears in left digital window.
2. Push button (B) repeatedly until the city of your choice (See Time Zone Chart in "Using the Watch" section) is displayed in the lower digital window.
3. Next, push and hold button (B) for more than 2 seconds until "ON" or "OFF" (for daylight savings time) appears in the upper digital window.
NOTE: the city will advance one city then go back to the selected city. Ignore this change - wait for "ON" or "OFF".
4. Use button (A) to select "ON" or "OFF" for daylight savings for the city selected.
5. Push button (B). Upper window shows the time with the seconds flashing. Now when button (A) is pushed, the seconds will return to "OO". Use this to coordinate the seconds with the time source that you are using.
6. Push (B) button. Minutes flash in upper window. (A) button advances minutes.
7. Push (B). Hours flash in upper window. Left side of window shows "A" for "AM" - "P" for "PM". Use (A) button to advance hours.
8. Push (B) button. "12H" (12 hour) or "24H" (24 hour) appears in upper window. Use (A) button to select the format you prefer.
9. Push (B) button. Time setting is complete.

NOTE: For daylight savings time setting of the remaining cities, See Section G, "Time Zone and Daylight Savings".

Section C CALENDAR SETTING

Setting the calendar for any one city automatically applies to all the cities and UTC (Universal time). You must insure that the city you are setting is in the same day/date that you set. For example, at 8 PM in Los Angeles, Hong Kong would be in the next day/date. Proceed as follows:

1. Push (M) button until "CAL" appears in the left window.
 2. Push (B) button repeatedly until the city of your choice appears in the lower window. See Time Zone Chart in "Using the Watch" section for city abbreviations.
- NOTE: If the day of the week appears in the lower window instead of the city, simply push and hold button (A) for more than 2 seconds until the city appears. The reverse (from city to day of week) also applies.
3. Push and hold (B) button for at least 2 seconds. The "month" (upper window) will start flashing. Use (A) button to advance months until correct.
 4. Push (B) button - date flashes. Advance date with (A) button.
 5. Push (B) button - year flashes. Advance year with (A) button.
 6. Push (M) button to end the calendar setting.

NOTE: The day of the week (MON, TUE, etc.) is automatically set when the above setting is completed.

Section D ALARM SETTING AND USE

NOTE: The only difference between Alarm 1 (AL1) and Alarm 2 (AL2) is the sound of the beep. Alarm sound duration is 20 seconds.

1. Push (M) button until "AL1" or "AL2" appears in left window.
2. Push (B) button to display the time for the city you wish to use.
3. Push and hold (B) button for 2 seconds or more until the "hour" flashes in the upper window. (A) button advances hours.
4. Push (B) button - minutes flash - advance minutes with (A) button.
5. (M) button exits alarm setting.

NOTE: Alarm time will function on 12/24 Hour system - whichever you select for time display (See Section B, Item No. 8)

6. Alarm on/off - use button (A) to turn alarm on/off after alarm setting is complete. You can test the alarm sound by pushing and holding button (A) with watch in the alarm mode.
7. Alarm stop - while alarm is sounding, pushing any button will stop the alarm.

Section E USING THE CHRONOGRAPH (CHRONO)

Maximum measurement is 24 hours.

Watch "beeps" at: START, STOP, SPLIT and RESET in the Chrono Mode.

1. Go to Chronograph Mode (CHR) using (M) button
2. (A) button chrono start; stop.
3. With chrono running, (B) button will show "split time" for ten seconds ("SPL" flashes in left window)
4. With chrono stopped, (B) button will reset chrono to "0".
5. Once started, the chrono will continue running even if the watch is changed to another mode. (i.e. time mode)

Section F COUNT DOWN TIMER

The Timer (TMR) can be set for whole minutes up to 99 minutes maximum. Timer will display count down in minutes and seconds.

1. Use (M) button to go to Timer Mode (TMR displays in left window)
2. Use (B) button to set count down time. Each push will reduce count by 1 minute (Maximum measurement 99 minutes, minimum 1 minute). Numbers will reduce rapidly if button is held down.
3. Start timer using (A) button. Count down will begin. When count down is complete, watch will "beep" for 5 seconds.

NOTE: Timer will continue running even if "mode" is changed.

Section G. SETTING THE TIME ZONE AND DAYLIGHT SAVINGS FEATURES

You can select (turn "on" or "off") the cities that you want to display. Cities that you turn "off" will not show in any mode unless you return to Time Zone "SET", where you can turn them "on" again.

Also, you can select which cities to adjust for daylight savings time.

1. Select "SET" in left window with the (M) button.
2. Select "CITY" (see time zone chart in "Using the Watch" section) with the (B) button.
3. Push and hold (B) button until "city" is displayed in the lower window and "on/off" (upper window) begins to flash.
4. Select city "on" or "off" with (A) button, then go to next Step #5.
5. For daylight savings on/off, push (B) button again and upper window will show "on" or "off" plus the letters "ST".
6. Select Daylight Savings "on" or "off" by using (A) button.
7. You can proceed to the next city by pushing (B) button again, or, exit the setting with the (M) button.

IMPORTANT: You can reverse the sequence of display for the cities by pushing the (A) and (B) buttons simultaneously in any mode except Chronograph and Timer. Then, when you use (B) button to call up cities, the sequence will be reversed.

Section H. NIGHT LIGHT

This watch features an electroluminescent (EL) night light for the digital displays. The light will stay on for approximately 2 seconds. The light can be activated in the Time (TME), Calendar (CAL) or Time Zone (SET) display modes. It can also be turned on during Stop or Split in the Chronograph (CHR) mode.

To activate, simply push button (A).

Section I. ALL RESET FUNCTION

This function should be initiated only when:

1. Changing the watch battery.
2. If the watch receives a very strong shock sufficient to upset the display.

Proceed as follows:

1. Pull out the crown to hand setting position.
2. Push and hold all three buttons (A), (B) and (M) simultaneously. Display will disappear.
3. Release the buttons - ALL digital segments will appear.
4. Push crown in - display will appear normal. Watch will beep to confirm.
5. At this point, all functions must be reset.

Section J. SPECIAL ITEMS

It will be very useful to remember the following items when using/setting your watch:

1. Any setting mode returns to normal display if no buttons are pushed for 2 minutes.
2. Chronograph and Time will continue running even if mode is changed.
3. Day of the week is automatically set when the date/month/year is selected.
4. Time and alarm will both display in 12 or 24 hour format - whichever is selected.
5. Time Zone on/off for cities and Daylight Savings Time on/off will automatically apply to all modes.
6. You can select, in the calendar mode (lower window), either the day of the week or the city. Pushing and holding button (A) changes the selection.