

For Human and Nature

Operating Manual W342/W346 Solar Drive RC- Movement

No. W342-W346/E 03/12

- **Solar-RC movement** with rechargeable cell.
- Radio controlled clock change for summer- and wintertime
- **Battery level scale / Power Reserve**
- **Perpetual calendar**
- **Worldwide manual clock change, World Time 38 cities**
- **Chronograph, Stopwatch 1/100 Sec.**
- Indication down right LCD: Day, Date, Month, Year, Time of foreign Time zone, Stopwatch
- Indication down left LCD: Battery level (Power Reserve)
- Indication top left LCD: Time zone
- Indication top right LCD: Foreign time zone, menu („STW“: stopwatch)
- **Power reserve** 1-8 Months. Depends on power level.
- **Sleep Function**, for energy saving. Activation after 3 days in darkness. Hands will stop at 12:00. Back in light, hands will rotate to actual time. After longer time in darkness, hands will rotate after pressing any button.

Important, commissioning of watch!

Due to heavy shocks or magnetic fields the hand position may differ from the internally saved radio time. The initial setup serves to resynchronise the hands with the internally saved radio time.

1. Charging cell

Please be shure of enough charging the cell. For more information, please take a look at „Power reserve“9.

For storage of the watch, we will suggest a light place.

For a clear function, Power Reserve should not be under orange scale.

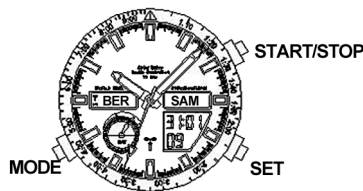
Attention! If the cell should be completely discharged for a longer time, new charging could damage the movement. Please let change the cell from a professional.

2. Function of MODE (Crown, if available, without any function):

If pressing **MODE**, you can dial following mode:

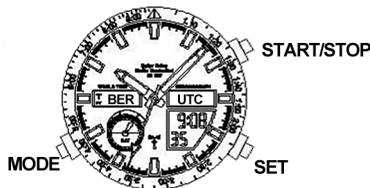
Mode 1

Analog time and analog date



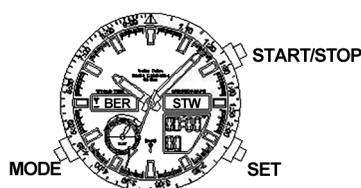
Mode 2

Analog time zone, digital time zone and digital time (hour, minute und Second)



Mode 3

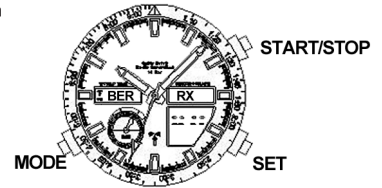
Analog time zone and Stop watch



3. Radio reception

If Mode 1 or Mode 2 shown, press for radio reception the **Start/Stop**-button for ca. 3 Seconds. The Second hand Stopps, the radio reception begins.

This will take 3 to 8 Minutes. When radio reception was successful, in top right LCD will light antenna-symbol.



4. Manual programming of analog time and date.

When mode 1 is shown, press **SET** for about 3 seconds. Now it will change to programm mode. The analog timezone flashes, for changing timezone press **Start/Stop**-button. Press **MODE** for confirm and to step to DST (Daylight Saving Time / summertime) of analog time. Press **Start/Stop** to activate/deactivate DST. If DST is activated, in top left LCD will appear DST. Now press for about 3 seconds **SET** for program Minute, Hour, Year and Month. For changing, press **Start/Stop**, for step to next press **MODE**. For finishing programming press **SET**. Now the hands and LCD will calibrate.

5. Programming of world time zone with DST

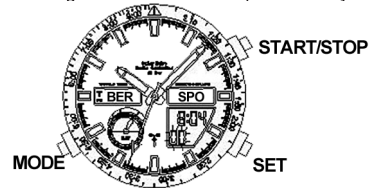
When mode 2 is shown, (or top right LCD shows any world time zone), press **SET** for about 3 seconds. The world time zone flashes. Press **Start/Stop** for changing. Now press **MODE** for next step -> (DST / summertime). For changing press **Start/Stop**. Finishing with **SET**.

6. Stop watch

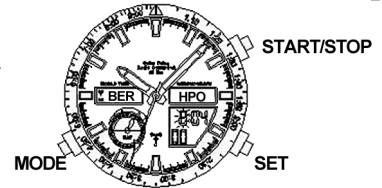
Press **MODE** to go to stop watch (Display shows **STW**). Press **Start/Stop** to start and to stop the Stop watch. Press **SET** for zero.

7. Hand calibration / First step

Due to heavy shocks or magnetic fields the hand position may differ from the internally saved radio time. The initial setup serves to resynchronise the hands with the internally saved radio time. Press **Start/Stop** and **SET** for about 5 seconds. The LCD will flash **CAL** and **SPO** (second position). The down right LCD flashes. Through stepwise pressing **Start/Stop** let rotate the second-hand on 12:00.

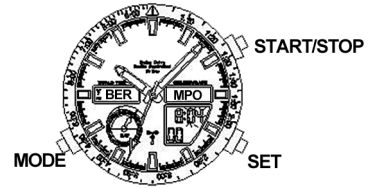


Now press **MODE**, the LCD changes to **HPO** (Hour Position) and the digital hour flashes. Press **Start/Stop** to set digital hour similar with analog hour.



Press **MODE**

to step to next point. Now the LCD shows **MPO** (Minute Position) and the digital Minute flashes. Press **Start/Stop** to set it similar with analog



minute. After this last step press **SET** to end the hand calibration. Now „RX“ will flash in top right LCD. It now starts the radio reception and hands will rotate. When reception and calibration was successful, in top right LCD will flash the antenna-symbol.

8. World time 38 cities:

SAM SAMOA	AUC AUCKLAND	ROM ROM
HNL HONOLULU	NOU NOUMEA	MAD MADRID
ANC ANCHORAGE	UTC koordinierte Weltzeit	LON LONDON
BER BERLIN	AZO AZORES	GUM GUAM
CAI CAIRO	LAX LOS ANGELES	JNB JOHANNESBURG
SAN SAN DIEGO	MOS MOSCOW	DEN DENVER
DXB DUBAI	CHI CHICAGO	KHI KARACHI
DAL DALLAS	DEL DELHI	MEX MEXICO
DAC DHAKA	NYC NEW YORK	BKK BANGKOK
CCS CARACAS	HKG HONG KONG	RIO RIO DE JANEIRO
BJN BEIJING	SAO SAO PAULO	SIN SINGAPORE
BUE B. AIRES	TYO TOKYO	MID MID ATLANTIC
SYD SYDNEY	PAR PARIS	

9. Power Reserve Level 1 (white):

The battery is empty or has too low power for function of watch. Charging min. 8 hours under sunlight. Power should be Level 3. Probably new calibration of watch needed.

Level 2 (yellow):

Battery low. Functions restricted.

Level 3 (orange):

Normal level for daily use. Runtime 6-8 months.

Level 4 (red):

Battery full charged, over normal level. Runtime approx. 8 Months. Battery cell will not be damaged due to overcharge protection inside