



## For Human and Nature

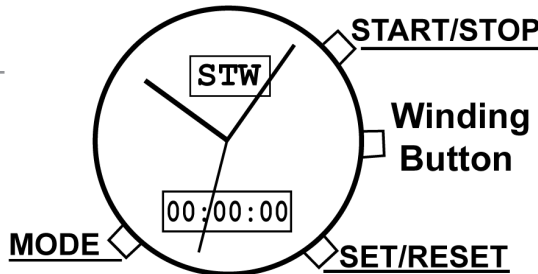
### USER MANUAL

#### World Timer Chronograph, Solar Radio Clockwork W341 / W345, DCF transmitter Mainflingen near Frankfurt / Main

No. W341 / W345 04/12

#### Product Features:

- Radio-controlled automatic time setting and time change for Daylight Savings Time and standard time
- Perpetual calendar
- Transmitter call
- Worldwide manual time zone adjustment
- Display in the lower LCD display: day, date, month, year
- Display in the upper LCD display: world time, stopwatch, day of the week
- Stopwatch 1/100 second
- German / English for day of the week display
- Solar clockwork with rechargeable storage cell and over-charging protection
- Power reserve 1-6 months depending on the state of charge. If fully charged, 6 months.
- Sleep function, for energy saving, is activated, if the watch is stored in the dark for 3 days. The hands stop on 12. If the watch comes into light again, the stored time is displayed. In the case of longer dark phases, the watch is updated again by pressing any button.



CHARGING TIME TABLE Light source	For one-day use	For full charging	For daily use
Artificial light, office, 600 Lux	4 hours	140 hours	1.200 hours
Outdoors, cloudy, 3000 Lux	1 hour	29 hours	240 hours
Outdoors, sunny, 10,000 Lux	0,5 hour	7 hours	60 hours
Direct sunlight 100.000 Lux	10 Min.	1 hour	16 hours

#### General information about solar technology

Your solar watch should always have a basic charge to prevent damage to the storage cell. For this purpose, it is recommended to not store the watch permanently in the dark and to expose it to light on a daily base.

#### 1. Basic setting –

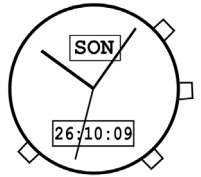
**WINDING BUTTON, POSSIBLY BOLTED! (model-depending) Loosen by turning counterclockwise, lock by turning clockwise.**

In the case that the watch was exposed to strong vibrations or magnetic fields, the synchronization between LCD display and hands may be disturbed. Therefore, the hands must be newly calibrated when you first use your watch. Pull the winding button of your watch all the way out. The LCD display shows **CAL**. Now press the **Start/Stop** button until the second hand is on 12:00. Now turn the winding button, until the minute hand and the hour hand are exactly on 12:00 as well. Now, press the

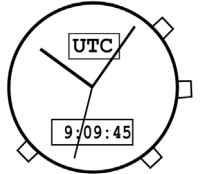
winding button back in. The LCD display shows **DCF** now. The radio signal is received. This process may take 5-8 minutes. *The storage cell must have sufficient charge for this process. If this is not the case, the process can only be completed after sufficient charging time.*

#### 2. LCD display:

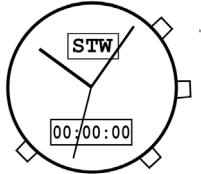
a) Upper LCD display: day of the week; lower LCD display: date,



b) Upper LCD display: city; lower LCD display: world time,



c) Upper LCD display: stopwatch; lower LCD display: stop time



#### 3. Manual transmitter call

Press **Start/Stop** for 3 seconds while the world time or the local time is indicated in the LCD display. This starts radio signal reception. It takes 3-8 minutes, until reception is completed. Next, the watch adjusts the new radio time and the correct date. The signal will be automatically obtained every night between 3 and 4 am.

#### 4. Manual adjustment of the analog time

If you would like to use your watch outside the normal time zone (**BER**), you must manually adjust the time, as radio signal DCF77 cannot be received everywhere! Press **Set/Reset** for 3 seconds while the day of the week and the date are shown on the display in order to manually adjust the time. Now you can select one of the 38 cities using the **Start/Stop** button. Next, press **Mode** to enter the DST (Daylight Savings Time) setting. In order to activate respectively deactivate, select „ON/OFF“ by pressing **Start/Stop**. Next, press **Mode** to enter the digital hours indicator in the lower LCD display. Set the hour using **Start/Stop**. Similarly, you can adjust the minutes, the language for the weekly display (German/English), as well as the date. Press **Set/Reset** to exit the manual settings. Now, the hands adjust automatically.

#### 5. Stopwatch

If **STW** is indicated in the display, press **Start/Stop** to start and stop the stopwatch. When pressing on **Set/Reset**, the stopwatch is reset to zero. Intermediate time measurements are possible using **Set/Reset** while the stopwatch is running.

#### 6. World time: 38 cities / DST

Press **Set/Reset** while the digital world time is displayed. The city name is flashing. Change the city name by pressing **Start/Stop**. After you selected a new time zone, press **Mode** to activate respectively deactivate the Daylight Savings Time (DST). For this purpose, press **Start/Stop** to select „ON/OFF“. Press on **Set/Reset** to finish and exit the settings.

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

#### 7. Abbreviations on the watch face

Lower LCD display:

OK – Reception OK      DST – Daylight Savings Time  
WT – World Time      LB – Low Battery indicator

Upper LCD display:

STW – Stopwatch      SPL – Split Stop Watch  
City – World time according to list

#### 8. Declaration of Conformity

We hereby declare that this wristwatch complies with the fundamental requirements and further relevant regulations of Directive 1999/4/EC.

#### 9. This product complies with the EMC Directives of the EU.

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