

## PRODUCT INFORMATION

## MATERIALS

### HIGH-TECH CERAMIC

Innovative, durable and skin-friendly: introduced by Rado in 1986, high-tech ceramic has become our signature. In metallic or non-metallic colors, with a glossy, matt, satin-brushed or decorated finish, it is the most versatile of our materials.

### HIGH-TECH HARDMETAL

Pure, simple and tough: we pioneered the use of this material by introducing the scratch-resistant watch, Diastar 1 (The Original), in 1962.

### CERAMOS

Ceramos™ combines high-tech ceramic - specifically titanium carbide - with a metallic alloy. Light and adaptable to skin temperature, it has the same qualities and benefits as high-tech ceramic, enhanced by a metallic luster.

### CARBON DIFFUSED STEEL

Through the diffusion of a high quantity of carbon at a low temperature, this treatment makes it possible to harden the surface of steel parts.

### SAPPHIRE CRYSTAL

High-tech sapphire crystal is used throughout our collection. The application of edge-to-edge crystal and metallization are standard features of Rado.

*NOTE: In order to reduce reflection, the sapphire crystal of some Rado collections has an anti-reflective coating on both sides. With time scratches may appear on the anti-reflective coating, this is normal wear and tear.*

## HOW HARD IS HARD?

The hardness of Rado high-tech materials guarantees durability and brilliance. The Vickers scale is used to indicate hardness: the higher a value, the greater the resistance.

The value of 10,000 is attributed only to natural diamonds and to the Rado high-tech diamond surface.

*NOTE: Rado watches are hard but not indestructible. Although our high-tech materials are resistant, Rado watches must be treated with care. They should not be dropped, and sharp knocks should be avoided. If hit hard enough, the materials may break.*

## PRECIOUS STONES

The name “Jubilé” refers to all the Rado products with diamonds or other precious

stones. Depending on the model, the name “Jubilé” may or may not figure on the dial. Details regarding the precious stones used on Jubilé watches may be found on the accompanying Precious Stone Certificate.

The quality of a diamond is defined by 4C's: Carat, Clarity, Color and Cut.

### CARAT

The weight of a diamond is measured in carats. 1 carat is the equivalent of 0.2 grams.

Stones of various weight classes and sizes are used in Rado “Jubilé” models.

### CLARITY

The diamond clarity rating of stones used by Rado is generally WS (Very Very Small Inclusions) on the case and VS-SI (Very Small - Small Inclusions) on the dial.

## COLOR

The color spectrum ranges from colorless to yellow.

Rado uses Top Wesselton (superior quality) diamonds.

## CUT

The cut determines the fire, brilliance and the luster of the diamond. Nearly all Rado diamonds are classed as 8/8 or full cut (brilliant).

## OTHER PRECIOUS STONES

There is no uniform nomenclature for describing the purity and color of other precious stones. Rado uses only precious stones of high quality.

## QUARTZ WATCHES

Rado quartz watches are equipped with top-quality Swiss button-type zinc-silver oxide or lithium batteries. Under

normal conditions, a battery should last at least 30 months. The battery must be changed when the seconds hand starts to move in 4-second intervals (or when, on a multifunction watch, the digital display begins to blink). Battery exhaustion in a watch without a seconds hand becomes apparent only when the hands stop moving altogether. Battery changes should only be performed by an authorized Rado dealer or Service Center to ensure that only original parts are used and that your watch is properly tested for water resistance. A worn-out battery should be replaced immediately in order to reduce the risk of leakage and consequent damage to the movement.



Collection and treatment of end of life quartz watches\*: This symbol indicates that this product should not be disposed with household waste. It has to be returned to a local authorized collection system. By following this procedure

you will contribute to the protection of the environment and human health. The recycling of the materials will help to conserve natural resources.



\* Valid in the EU member states and in any countries with corresponding legislation.

## AUTOMATIC WATCHES

Automatic watches are precision instruments powered by the wearer's movement.

Before using your automatic watch, we strongly advise winding the watch by turning the crown 15-20 times. A fully wound Rado automatic watch has a running reserve of at least 36 hours. If the watch stops (e.g. if it has not been worn for some time or during periods of low activity), it should be wound manually. *To wind an automatic watch manually:* place the crown in position 1. Turn the crown forwards several times.

*IMPORTANT: Magnetic fields can affect the accuracy of the watch.*

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

## SWISS PRECISION

The name Rado guarantees a Swiss quality watch movement of great precision. Every movement undergoes numerous controls before being installed in a Rado watch. The average deviation of a Rado quartz watch should not exceed 15 seconds per month. The average deviation of a Rado automatic watch should not exceed -5 to +20 seconds per day.

## WATER RESISTANCE

All Rado watches are water-resistant. They can withstand a water pressure of at least 3 bar (depth of 30 meters). Water resistance is not a permanent condition. To ensure permanent water resistance, the watch should be checked once a year.

To ensure conformance with the warranty regulations, these operations must be performed by an authorized Rado dealer or authorized Rado Service Center.

*NOTE: Water resistance information in "meters" or "bar" refers to theoretical pressure and temperature test norms and does not indicate actual diving depths.*

*IMPORTANT: To ensure optimal water resistance, the following must be observed: after every operation involving the crown, return it to position 1 or screw it back in by*

*pressing and turning it forwards simultaneously. Avoid shocks to the crown. Do not use either the crown or chronograph pushers underwater.*

## TEMPERATURE

Avoid exposing your Rado watch to extreme temperatures (higher than 60°C/140° F or lower than 0°C/32°F), extreme changes in temperature, or high humidity.

## MAINTENANCE

Please note that having your Rado watch serviced every 5 to 7 years will not only prolong its life but also maintain its value. For perfect maintenance, please visit only your official Rado dealer or Service Center (a list of Rado Service Centers can be found at the end of this manual or on the Internet). Your Rado watch will also benefit from being cleaned from time to time with lukewarm,

slightly soapy water and the help of a toothbrush. This cleaning is especially recommended if the watch has been in contact with salt water or cosmetics.

To preserve the condition of your leather strap for as long as possible please avoid contact with water, dampness, prolonged exposure to sunlight or with greasy substances and cosmetic products.

## **SKIN-FRIENDLINESS**

For Rado, luxury means not only beauty and exquisite materials, but also personal comfort. Apart from ensuring durability, our high-tech materials ensure that Rado watches are gentle to the skin and smooth on the wrist.



## OPERATING INSTRUCTIONS

## HOW TO FIND THE RELEVANT SECTION FOR YOUR WATCH

Engraved on the back of your watch is an 8-digit reference number.

The first three digits refer to the movement.

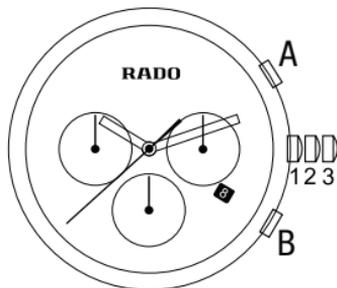
In the reference number **115.0653.3**, for example, 115 is the caliber used in the watch.

Please review the following caliber list and refer to the relevant section.

### Calibers:

073	_____	page 21
080	_____	page 23
084	_____	page 22
111, 113	_____	page 21
114	_____	page 22
115, 129	_____	page 21
140, 150	_____	page 23
152	_____	page 21
153	_____	page 23
156, 157, 160, 161	_____	page 21
193, 210	_____	page 41
212, 218, 219, 239, 256, 271	_____	page 21

277	_____	page 24
278	_____	page 21
289	_____	page 34
290	_____	page 46
291	_____	page 21
312	_____	page 37
318, 322	_____	page 23
370	_____	page 39
420	_____	page 23
510	_____	page 57
538	_____	page 37
541	_____	page 39
542	_____	page 37
550, 557, 561, 580	_____	page 48
603	_____	page 54
604	_____	page 53
609, 629	_____	page 48
636	_____	page 50
642	_____	page 55
648, 650, 652, 653	_____	page 50
656, 657, 658, 661	_____	page 48
663	_____	page 51
674	_____	page 54
734, 763	_____	page 48
764	_____	page 50
765	_____	page 27
766	_____	page 48
770	_____	page 50
771	_____	page 56
772, 773	_____	page 48
963	_____	page 23
964	_____	page 24



## QUARTZ WATCHES WITH DATE DISPLAY

**CALIBERS: 073, 111, 113, 115\*, 129\*,  
152, 156, 157\*, 160, 161\*, 212, 218, 219,  
239, 256, 271, 278\*, 291**

\* On certain models these movements have no date display (jewelry version) and only the positions 1 and 3 are functional.

## THE CROWN HAS 3 POSITIONS

### 1. Normal position

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

### 2. To set the date

Pull the crown out to position 2, turn it forwards or backwards (depending on the movement) to the desired date.

Push the crown back to position 1.

### 3. To set the time

Pull the crown out to position 3 and turn it forwards or backwards to the desired time. If the watch is equipped with a seconds hand, accept by pushing the crown back to position 1 to coincide with a given time signal.

**QUARTZ WATCHES  
WITH DATE DISPLAY AND MOON PHASE  
CALIBER: 084**

**THE CROWN HAS 3 POSITIONS**

**1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

**2. Set the date and moon phase**

To set the moon phase, pull the crown out to position 2 and turn it backwards until the full moon appears in the centre of the moon phase dial. Use a calendar that lists the moon's phases to find out the date of the last full moon. Turn the crown backwards again until the moon is in the position indicated on the calendar. Turn the crown forwards until the desired date is displayed. Press the crown back into position 1.

**3. To set the time**

Pull the crown out to position 3 and turn it forwards or backwards to set the desired time. If the watch is equipped with a seconds hand, accept by pushing the crown back to position 1 to coincide with a given time signal.

**QUARTZ WATCHES  
WITH DAY/DATE DISPLAY  
CALIBER: 114**

**THE CROWN HAS 3 POSITIONS**

**1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

## **2. To set the date and day**

Pull the crown out to position 2, turn it forwards to set the desired date. Turn it backwards to set the desired day of the week. Push the crown back to position 1.

## **3. To set the time**

Pull the crown out to position 3 and turn it forwards or backwards to set the desired time. Accept by pushing the crown back to position 1 to coincide with a given time signal.

## **QUARTZ WATCHES WITHOUT DATE DISPLAY**

**CALIBERS: 080, 140, 150, 153, 318, 322,  
420, 963**

## **THE CROWN HAS 2 POSITIONS**

### **1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

### **2. To set the time**

Pull the crown out to position 2 and turn it forwards or backwards to set the desired time. If the watch is equipped with a seconds hand, accept by pushing the crown back to position 1 to coincide with a given time signal.

**QUARTZ WATCHES  
WITHOUT CROWN  
CALIBER: 964**

To set the time on crownless watches, use the magnetic pin or the enclosed magnet accessory to press the respective contacts on the caseback forwards (+) or backwards (-) to set the desired time.

To adjust the time forwards or back one minute at a time, maintain contact for 1 second; for 30-minute adjustments, maintain contact for around 3 seconds; to adjust by several hours, maintain contact for around 4 seconds.

**QUARTZ CERAMIC TOUCH WATCHES  
WITHOUT DATE DISPLAY  
CALIBER: 277**

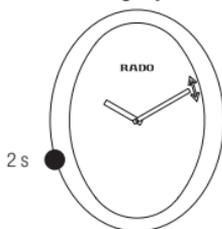
This watch has no crown. It is activated and the time is set by touch only.



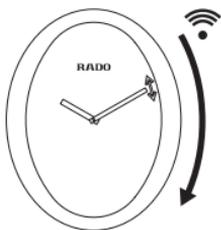
**1. Activating setting mode**

Activation is always a two-step process to avoid any unwanted changes in time setting.

**1a.** Touch the case at 8 o'clock for approximately 2 seconds. The minute hand will move slightly.



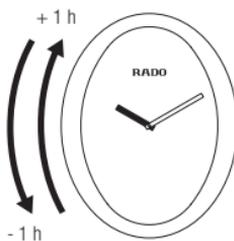
**1b.** Immediately slide your index finger down the right hand side of the watch case from top to bottom. The watch will emit a short 'beep' and the minute hand will move slightly again.



## 2. Setting the time

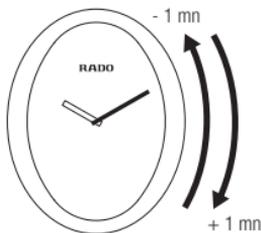
### 2a. Setting the hours / Changing time zone

Slide your finger along the left hand side of the case clockwise = +1 hour, or anti-clockwise = - 1 hour.



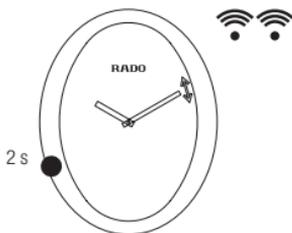
### **2b. Setting the minutes**

Slide your finger along the right hand side of the case clockwise = + 1 minute or anti-clockwise = - 1 minute.



### **3. Confirmation / Exit setting mode**

Touch the case at 8 o'clock for approximately 2 seconds to confirm the changes made to the time setting in step 2. The minute hand will move slightly and the watch will emit two 'beeps'. Setting mode is now deactivated.



Without this confirmation, the watch will automatically exit setting mode after 10 seconds and will not retain the changes made in Step 2. The watch will return to the previous time setting.

**QUARTZ CERAMIC TOUCH WATCHES  
WITH A SECOND TIME ZONE  
WITHOUT DATE DISPLAY  
CALIBER: 765**

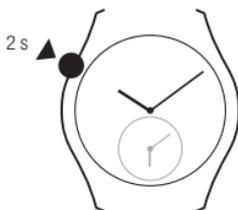
This watch has no crown. It is activated and the time is set by touch only. This watch has a 2nd Time Zone function, which is synchronised with the main one.

**TO SET THE MAIN TIME ZONE (MAIN DIAL)**

**1. Activating setting mode**

Activation is always a two-step process to avoid any unwanted changes in time setting.

**1a.** Touch the case at 10 o'clock until the minute hand on the main dial moves slightly.



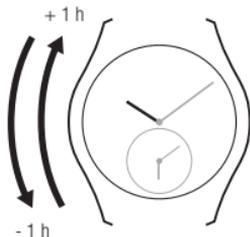
**1b.** Immediately slide your finger along the right hand side of the case from top to bottom. The minute hand moves slightly again and the watch emits a small beep.



## 2. Setting the time

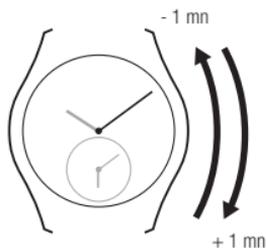
### 2a. Setting the hours

Slide your finger along the left hand side of the case clockwise = + 1 hour  
or anti-clockwise = - 1 hour.



### 2b. Setting the minutes

Slide your finger along the right hand side of the case clockwise = + 1 minute  
or anti-clockwise = - 1 minute.



## 3. Confirmation / Exit setting mode

Touch the case at 10 o'clock or at 8 o'clock for 2 seconds. The watch emits two small beeps. Setting mode is now deactivated and the time cannot be changed accidentally.



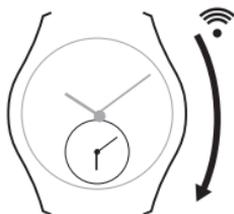
## TO SET THE SECOND TIME ZONE (SMALL DIAL)

### 1. Activating setting mode

**1a.** Touch the case at 8 o'clock, the minute hand on the small dial moves slightly.



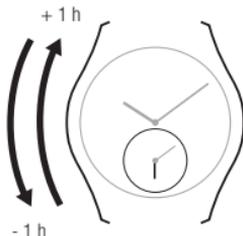
**1b.** Immediately slide your finger along the right hand side of the case from top to bottom. The minute hand moves slightly again and the watch emits a small beep.



### 2. Setting the time

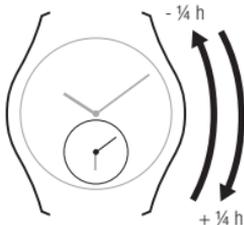
#### **2a. Setting the hours**

Slide your finger along the left hand side of the case clockwise = + 1 hour  
or anti-clockwise = - 1 hour.



### **2b. Setting the quarter hours (minimum possible time zone difference)**

Slide your finger along the right hand side of the case clockwise = +  $\frac{1}{4}$  hour  
or anti-clockwise = -  $\frac{1}{4}$  hour.



### **3. Confirmation / Exit setting mode**

Touch the case at 8 o'clock or at 10 o'clock for 2 seconds. The watch will emit two small beeps. Setting mode is now deactivated and the time cannot be changed accidentally.



### **TIME ZONE SWAP**

#### **1. Activating setting mode**

**1a.** Touch the case either at 8 o'clock (or 10 o'clock), the minute hand on the small (or main) dial moves slightly.



**1b.** Immediately slide your finger along the right hand side of the case from top to bottom. The same minute hand moves slightly again and the watch emits a small beep.



## 2. Swapping time zones

Touch the case simultaneously at 9 o'clock and 3 o'clock for 2 seconds. The hands on both dials will move quickly and the time set on each dial will move to the other one.



## 3. Confirmation / Exit setting mode

Touch the case either at 8 o'clock (or 10 o'clock) for 2 seconds. The watch will emit two small beeps. Setting mode is now deactivated and the time cannot be changed accidentally.



## RESYNCHRONISING THE MINUTE HANDS

If the minute hands on the small and big dials are no longer aligned you can activate a special mode to resynchronise them.

### 1. Activating setting mode

**1a.** Touch the case at 8 o'clock, until the minute hand on the small dial moves slightly from right to left.



**1b.** Immediately slide your finger along the right hand side of the case from top to bottom. The minute hand moves slightly from right to left and the watch emits a small beep.



### 2. Set the position of the minute hand on the small dial

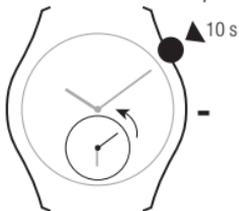
In order to proceed with the resynchronisation make sure the minute hands of both dials are at almost a full hour time difference. To do so follow the setting instructions.

### 3. Resynchronising the minute hand

Use option a. or b. depending on the direction you wish the minute hand of the small dial to move, in order to align it with the position of the minute hand of the main dial.

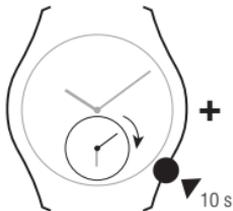
### **3a. Resynchronising the minute hand anti-clockwise**

Touch the case at 2 o'clock, wait 10 seconds for hand to begin moving, hold until it has reached the same position as the minute hand on the main dial. The hand moves at 1/3 minute intervals for accuracy and the maximum correction possible is 5 minutes.



### **b. Resynchronising the minute hand clockwise**

Touch the case at 4 o'clock, wait 10 seconds for hand to begin moving, hold until it has reached the same position as the minute hand on the main dial. The hand moves at 1/3 minute intervals for accuracy and the maximum correction possible is 5 minutes.



## **4. Confirmation / Exit setting mode**

Touch the case at 8 o'clock for two seconds. The watch emits two small beeps. Setting mode is now deactivated.



**QUARTZ SPLIT- AND ADD-SECONDS  
CHRONOGRAPH WATCHES  
CALIBER: 289**

**THE WATCH IS DELIVERED IN 'ENERGY-SAVING' MODE**

The crown is extended, the hands are at twelve o'clock. Once the crown has been pushed in from position 2, the watch automatically changes to the Swiss time and date. It must then be set to the local time. If the user pulls the crown to position 2, the hands return to twelve o'clock and the watch goes back into 'energy-saving' mode after about 1 minute. Once the crown has been pushed in, the watch automatically changes to the local time.

**PRECIDRIVE OF  $\pm$  10 SECONDS PER YEAR**

The watch ensures the display of hours, minutes and seconds to an accuracy of  $\pm$  10 sec / year. This extreme accuracy is

achieved through an ultra-precise quartz combined with time display correction in the event of a disturbance.

**GPD SYSTEM**

The GPD system (Gear Position Detection) is the watch's key device. It allows to automatically reset the hands after a shock, either immediately or at 3am if the problem isn't resolved right away. The GPD system also includes automatic correction at 3am every three days to ensure the precision.

**PERPETUAL CALENDAR**

The watch is equipped with a perpetual calendar that no longer requires correcting the date. The caliber does not allow one to move the time forward or backward more than one day, in order to avoid disrupting the perpetual calendar.

## **SMART CROWN**

The smart crown allows to set the time minute by minute or hour by hour (quick setting), by turning the crown either slowly or quickly. When changing the time in summer/winter, the movement automatically repositions the second and minute hands to the exact position of the previous time, therefore ensuring extra precision.

## **BATTERY**

The watch signals the end of battery life when the second hand is jumping every five seconds. If the battery is not replaced during the E.O.L. (end of life) phase, the system goes into E.O.E (end of energy) mode by setting the watch hands to 12 o'clock. You have then about 6 months to change the battery.

## **RESYNCHRONISATION**

If the battery is empty (or removed from the movement more than one day), the watch

needs to be totally resynchronised (reprogrammed). All the functions are affected. If the battery is removed from the movement less than one day, only the hour needs to be resynchronised.

## **THE CROWN HAS 2 POSITIONS**

### **1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

### **2. To set the time**

Pull the crown out to position 2. Adjust the hands by turning the crown in either direction. The time can be set minute by minute or hour by hour (quick setting), by turning the crown either slowly or quickly. Push the crown back in to position 1. The perpetual calendar no longer requires correcting the date.

### **Chronograph functions**

Make sure the chronograph hands are at zero (Pusher B).

*NOTE: this movements has no 1/10th of a second counter. In this case the timekeeping is precise to 1 second.*

#### **CHR SP: Stopwatch with Intermediate times (SPLIT)**

Start: Press pusher A.

Stop: Press pusher B, read off first Intermediate (split) time.

Start again: Press pusher B to show elapsed time. Repeat for further intermediate (split) times.

Stop: Press pusher A, read off total elapsed time.

Reset to zero: Press pusher B again.

*NOTE: The split time should be read immediately, as it continues after 10 seconds and since the chronograph*

*totalizers for hours, minutes and seconds continue to measure the elapsed time. While the chronograph is running, do not leave the split-second hand stopped any longer than is necessary to read the split time, otherwise the functioning of the split-seconds mechanism may be affected.*

#### **CHR Ad: Stopwatch with ADD timing mode.**

Start: Press pusher A.

Stop: Press pusher A again and read off time.

Start again: Press pusher A again.

Stop again: Press pusher A again and read off time.

Reset to zero: Press pusher B.

## QUARTZ CHRONOGRAPH WATCHES

**CALIBERS: 312, 538\*, 542**

\* On certain models these movements have no 1/10th of a second counter. In this case the timekeeping is precise to 1 second.

### THE CROWN HAS 3 POSITIONS

#### 1. Normal position

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

#### 2. To set the date

Pull the crown out to position 2 and set the date by moving the hour hand forwards or backwards. To adjust by one day, the hour hand must be moved by 24 hours. Push the crown back to position 1.

*To change time zones, summer/winter time*

Pull the crown out to position 2 and turn

it forwards or backwards to set the desired hour. The minutes and seconds remain the same. Push the crown back to position 1.

#### 3. To set the time

Pull the crown out to position 3. The small seconds hand will stop. Set the correct time by turning the crown forwards or backwards. Accept by pushing the crown back to position 1 to coincide with a given time signal.

#### Chronograph functions

Timing to within 1/10th of a second for up to 30 minutes.

*Addition function*

Pusher A: Start

Pusher A: Stop to read time

Pusher A: Restart

Pusher A: Stop

At the end of the last step, the chronograph indicates the total time.

Pusher B: Reset

### *Split time function*

Pusher A: Start

Pusher B: Stop to read the split time.

The chronograph continues to operate.

Pusher B: Restart

The chronograph hands catch up with the elapsed time.

Pusher A: For the last stop and to display the total time.

Pusher B: Reset

### *Readjusting the chronograph hands*

After a battery change it may be necessary to reset the hands to their original position.

312:

Resetting the hands:

Pull out the crown into position 2 and press pusher A to select the hand to be repositioned. The selected hand moves.

Press pusher B to correct the position of the hand.

Short push: Forward movement by one unit

Long push: Rapid forward movement of the hand

538\*, 542:

Initialization of the 30-minute totalizer hand:  
Pusher B and crown in position 2

Initialization of the 60-second totalizer hand:  
Pusher A and crown in position 3

Initialization of the 1/10th of a second hand:  
Pusher B and crown in position 3

Short push: Forward movement by one unit

Long push: Rapid forward movement of the hand

## QUARTZ CHRONOGRAPH WATCHES

### CALIBER: 370, 541

#### SCREW-IN CROWN

Certain models are fitted with a screw-in crown. With these models, the crown must be unscrewed before using it to adjust any settings. Following any adjustments, the crown must be returned to position 1 and screwed back in. Position 1 is the starting point for all manipulations of the crown on all models.

#### THE CROWN HAS 3 POSITIONS

##### 1. Normal position

When pressed in against the case (position 1) or screwed in, the crown ensures that the watch is water-resistant (if not damaged).

##### 2. To set the date

Pull the crown out to position 2 and set the date by moving the hour hand forwards or backwards. To adjust by one day, the hour hand must be moved by 24 hours. Push the crown back to position 1.

##### *To change time zones, summer/winter time*

Pull the crown out to position 2 and turn it forwards or backwards to set the desired hour. The minutes and seconds remain the same. Push the crown back to position 1.

##### 3. To set the time

Pull the crown out to position 3. The small seconds hand will stop. Set the correct time by turning the crown forwards or backwards. Accept by pushing the crown back to position 1 to coincide with a given time signal.

### **Chronograph functions**

Timing to within 1/10th of a second for up to 12 hours.

#### *Addition function*

Pusher A: Start

Pusher A: Stop to read time

Pusher A: Restart

Pusher A: Stop

At the end of the last step, the chronograph indicates the total time.

Pusher B: Reset

#### *Split time function*

Pusher A: Start

Pusher B: Stop to read the split time.

The chronograph continues to operate.

Pusher B: Restart

The chronograph hands catch up with the elapsed time.

Pusher A: For the last stop and to display the total time.

Pusher B: Reset

#### *Readjusting the chronograph hands*

After a battery change it may be necessary to reset the hands to their original position.

370:

Resetting the hands:

Pull out the crown into position 2 and press pusher A to select the hand to be repositioned. The selected hand moves.

Press pusher B to correct the position of the hand.

Short push: Forward movement by one unit

Long push: Rapid forward movement of the hand

541:

Initialization of the 12-hour totalizer hand:

Pusher A and crown in position 2

Initialization of the 60-minute totalizer hand:

Pusher B and crown in position 2

Initialization of the 60-second totalizer hand:

Pusher A and crown in position 3

Initialization of the 1/10th of a second hand:

Pusher B and crown in position 3

Short push: Forward movement by one unit

Long push: Rapid forward movement of the hand

## MULTIFUNCTION WATCHES

**CALIBERS: 193, 210**

### **THE CROWN HAS 2 POSITIONS AND MULTIPLE FUNCTIONS**

Select function: Leave crown in position 1 and turn. Scroll through the 9 functions.

Adjust function: Pull crown out to position 2 and turn.

Turn function on/off: Press crown briefly.

Set to zero: Press crown and hold for 3 seconds.

## 1. To adjust the time

Select function 1

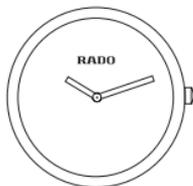


Pull crown out to position 2.

- a) Hours: Turn crown quickly.
- b) Minutes: Turn crown slowly.
- c) Seconds: Push the crown back to position 1. The seconds display blinks for 1 minute, during which a brief press of the crown will reset the seconds to zero.

## 2. To synchronize digital and analog displays

Set digital display to 24-hour mode (Function 6: T2), then select function 2.



Pull crown out to position 2.

Turn crown until both time displays are synchronized.

- a) Hours: Turn crown quickly.
- b) Minutes: Turn crown slowly.  
Push the crown back to position 1.

### 3. AL: Alarm

Select function 3



*To set the alarm:*

Pull crown out to position 2.

a) Hours: Turn crown quickly.

b) Minutes: Turn crown slowly.

Push the crown back to position 1.

*To switch alarm tone on/off*

Press crown briefly.

AL = alarm tone on. OF = alarm tone off

*NOTE: The alarm can be set in 12-hour (AM/PM) or 24-hour mode.*

### 4. CHR SP: Stopwatch with intermediate times (SPLIT)

Select function 4



Start: Press crown.

Stop: Press crown again, read off first intermediate (split) time. Chronograph continues to operate

Start again: Press crown again to show elapsed time. Repeat for further intermediate (split) times.

Stop: Press crown, read off total elapsed time.

Reset to zero: Press crown and hold for at least 3 seconds.

## 5. CHR Ad: Stopwatch with ADD timing mode.

Select function 5



Start: Press crown.

Stop: Press crown again and read off time.

Start again: Press crown again – and so on.

Reset to zero: Press crown and hold for at least 3 seconds.

## 6. T2: Additional time zone adjustment.

Select function 6



Pull crown out to position 2.

To adjust by hours: Turn the crown quickly.

To adjust by 1/2 hours: Turn the crown slowly.

Push the crown back to position 1.

*To select 24-hour display or AM/PM display.*

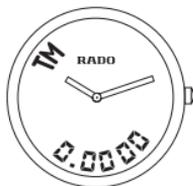
The watch can display the time in 12-hour (AM/PM) or 24-hour mode.

Select Function 6. To check the display mode, briefly press the crown once: if A or P appears, the time display is in 12-hour mode.

If no letter appears, the time display is in 24-hour mode. To change mode, press crown briefly a second time.

## 7. TM: Timer

Select function 7



*To set countdown start time*

Pull crown out to position 2.

- a) Hours: Turn crown quickly.
- b) Minutes: Turn crown slowly.

*To start countdown*

Push the crown back to position 1.

When the countdown reaches zero, the watch emits an audible signal. To switch the signal off, press crown briefly.

*Timer memory function.*

Pressing the crown automatically resets the preprogrammed starting time for the countdown, and the countdown begins again.

*To reset countdown to zero (at any time)*

Press crown for at least 3 seconds.

## 8. To change language and year

Select function 8



Pull crown out to position 2.

Language: Turn crown quickly.

E = English    D = German

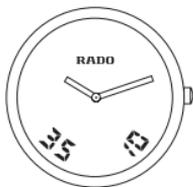
F = French    S = Spanish

Year: Turn crown slowly.

Push the crown back to position 1.

## 9. To adjust the date

Select function 9



Pull crown out to position 2.

Month: Turn crown quickly.

Date: Turn crown slowly.

Push the crown back to position 1.

*NOTE: The month number is stored in the memory but is not continuously displayed; it must be set correctly in order for the calendar to function properly.*

## DIGITAL WATCHES WITH SELF-WINDING MECHANISM CALIBER: 290

### THE CROWN HAS 2 POSITIONS AND MULTIPLE FUNCTIONS

#### 1. Normal position

Time display: hours and minutes.

To display the date, turn the crown: the date appears for 2 seconds.

#### 2. To set the time

Pull the crown out to position 2.

Display blinks.

a) Hours: Turn crown quickly.

b) Minutes: Turn crown slowly.

Push the crown back to position 1.

This will also reset the seconds to zero.

*NOTE: The seconds are not displayed.*

**To set the date**

Turn the crown. The date is displayed.  
Immediately pull the crown out to position 2.

Display blinks.

a) Month: Turn crown quickly.

b) Date: Turn crown slowly.

Push the crown back to position 1.

*NOTE: The month number is stored in memory but is not continuously displayed; it must be set correctly in order for the calendar to function properly.*

**To select 12/24 h display**

Pull the crown out to position 2.

Push the crown back to position 1 and immediately pull it out again to position 2.

Turn the crown to select the mode:

12 h or 24 h.

Push the crown back to position 1.

**POWER RESERVE/WINDING**

The running time depends on how long the watch has been worn. With a fully loaded power reserve, the watch will run for 120 days. It takes 4 to 9 months of wearing the watch for it to reach the full power reserve.

When there is only a little energy left, the corresponding symbol (the small bar at the center of the dial, directly beneath the time display) starts to blink. The watch can be wound manually at any time by turning the crown forwards.

If the movement is completely stopped, you can restart it by winding it for at least 15 seconds before setting the time.

If you wish to store the watch for a long time, you may pull out the crown to position 2. This will reduce its power consumption considerably and increase the power reserve up to 10 years, but the time of day will be lost.

## SELF-WINDING WATCHES WITH DATE DISPLAY

**CALIBERS: 550, 557\*, 561, 580, 609,  
629, 656\*, 657\*, 658\*\*, 661, 734\*,  
763\*\*\*, 766, 772\*\*\*, 773\*\*\***

\* On certain models this movement has no date display (jewelry or skeleton versions) and only the positions 1 and 3 are functional.

\*\*\* This movement has a power reserve up to 80 hours.

### SCREW-IN CROWN

Certain models are fitted with a screw-in crown. With these models, the crown must be unscrewed before using it to adjust any settings. It must then be returned to position 1 and screwed back in. With all models, position 1 is the starting point for all manipulations of the crown.

## THE CROWN HAS 3 POSITIONS

### 1. Normal position

The crown is in its normal position if it is pressed up against the case (position 1) or screwed in. In this position, the crown ensures that the watch is water-resistant (if not damaged).

### 2. To set the date

Pull the crown out to position 2, turn it forwards or backwards (depending on the movement, Caliber 657\* forwards only) to set the desired date. Push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

### **3. To set the time**

Pull the crown out to position 3 and turn it forwards or backwards (Caliber 657\* forwards only) to the desired time. Accept by pushing the crown back to position 1 to coincide with a given time signal.

#### **\*\*Rotating bezel**

On certain models the rotating bezel is located under the protective covering of the sapphire crystal and can be manipulated with the crown.

#### *Short time measurement*

Unscrew the crown. Turn the crown to move the 60-minute marker to the position of the minute hand. Screw the crown back in place. The elapsed time can subsequently be read off on the inner rotating bezel.

### **POWER RESERVE INDICATOR**

Caliber 772\*\*\* features a power reserve indicator. When the watch is fully wound (by wearing or manual winding) it provides a power reserve of up to 80 hours. If the watch is not worn for a while, or worn only infrequently, the power reserve indicator moves counter-clockwise. When the indicator reaches the lower red area of the display, the watch should be worn or wound manually (place the crown in position 1 and turn it forwards several times) to ensure it does not stop. During winding, the power reserve indicator moves clockwise and stops once the watch has been fully wound.

**SELF-WINDING WATCHES  
WITH DAY/DATE DISPLAY  
CALIBERS: 636, 648, 764\*\*\*, 770\*\*\***

\*\*\* This movement has a power reserve up to 80 hours.

**THE CROWN HAS 3 POSITIONS**

**1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

**2. To set the date**

Pull the crown out to position 2, turn it forwards to set the desired date. Turn it backwards to set the desired day of the week. Push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

**3. To set the time**

Pull the crown out to position 3 and turn it forwards or backwards to the desired time. Accept by pushing the crown back to position 1 to coincide with a given time signal.

**SELF-WINDING CHRONOGRAPH  
WITH DATE  
CALIBERS: 650, 652, 653**

**THE CROWN HAS 3 POSITIONS**

**1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

## 2. To set the date

Pull the crown out to position 2 and rotate it backwards (Caliber 650 forwards only) to the desired date, then push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

## 3. To set the time

Pull the crown out to position 3. The small seconds hand will stop. Set the correct time by turning the crown forwards or backwards (Caliber 650 forwards only). Accept by pushing the crown back to position 1 to coincide with a given time signal.

### Chronograph functions

Timing to within 1/4th of a second for up to 12 hours.

Make sure the chronograph hands are at zero (Pusher B).

Pusher A: Start – stop, start – stop etc.

Pusher B: Reset (after a stop).

### SELF-WINDING SPLIT-SECONDS CHRONOGRAPH CALIBER: 663

### SCREW-IN CROWN

This model is fitted with a screw-in crown. The crown must be unscrewed before using it to adjust any settings. It must then be returned to position 1 and screwed back in. Position 1 is the starting point for all manipulations of the crown.

### THE CROWN HAS 3 POSITIONS

Only positions 1 and 3 are functional.

### 1. Normal position

When pressed in against the case and screwed in, the crown ensures that the watch is water-resistant.

### 3. To set the time

Pull the crown out to position 3. The small seconds hand will stop. Set the correct time by turning the crown forwards or backwards. Accept by pushing the crown back to position 1 to coincide with a given time signal.

### Chronograph functions

Timing to within 1/4th of a second for up to 12 hours.

Make sure the chronograph hands are at zero (Pusher B).

Pusher A: Start – stop, start – stop etc.

Pusher B: Reset (after a stop).

### Chronograph functions with split-seconds

The split-seconds function allows split times to be recorded while the chronograph is running.

1. Start the chronograph by pressing pusher A.

2. To record a split time, press pusher C. The split-seconds hand stops, indicating the split time, while the chronograph continues running.

*NOTE: The split time should be read immediately, since the chronograph totalizers for hours, minutes and seconds continue to measure the elapsed time.*

*While the chronograph is running, do not leave the split-seconds hand stopped any longer than is necessary to read the split time, otherwise the functioning of the split-seconds mechanism may be affected.*

3. Press pusher C for the split-seconds hand to catch up with the chronograph seconds hand.
4. To record a new split time, start from step 2 above.
5. Press pusher A to stop the chronograph.
6. Press pusher B to reset.

*IMPORTANT: The split-seconds hand must have caught up with the chronograph seconds hand, as explained in step 3 above, before the chronograph is reset.*

## **SELF-WINDING CHRONOGRAPH WITH DATE CALIBER: 604**

### **THE CROWN HAS 2 POSITIONS**

#### **1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

#### **2. To set the date**

Set the date by pressing on push-button C. The date changes at each press. Date correction is not possible between 8.30 pm and 11 pm.

#### **To set the time**

Pull the crown out to position 2. The small seconds hand will stop. Set the correct time by turning the crown forwards or backwards.

Accept by pushing the crown back to position 1 to coincide with a given time signal.

### **Chronograph functions**

Timing to within 1/4th of a second for up to 30 minutes.

Make sure the chronograph hands are at zero (Pusher B).

Pusher A: Start – stop, start – stop etc.

Pusher B: Reset (after a stop).

### **SELF-WINDING CHRONOGRAPH WITH DATE CALIBERS: 603, 674\***

\* On certain models this movement has no display of the date.

### **THE CROWN HAS 3 POSITIONS**

#### **1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

#### **2. To set the date**

Pull the crown out to position 2, turn it forwards to set the desired date.

Push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

### 3. To set the time

Pull the crown out to position 3 and turn it forwards or backwards to the desired time. Accept by pushing the crown back to position 1 to coincide with a given time signal.

### Chronograph functions

Timing to within 1/4th of a second for up to 12 hours.

Make sure the chronograph hands are at zero (Pusher B).

Pusher A: Start – stop, start – stop etc.

Pusher B: Reset (after a stop).

## SELF-WINDING WATCHES WITH A SECOND TIME ZONE AND DATE DISPLAY (GMT/UTC) CALIBER: 642

### THE CROWN HAS 3 POSITIONS

#### 1. Normal position

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

#### 2. To set the date and the second time zone

Pull the crown out to position 2, and turn it backwards until you obtain the desired date. Turn the crown forwards until you obtain the desired time for the second time zone (24-h hand). Push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

### 3. To set the time

Pull the crown out to position 3, and turn it forwards or backwards to the desired time. Accept by pushing the crown back to position 1 to coincide with a given time signal.

**AUTOMATIC WATCHES WITH SECOND  
TIME ZONE AND DATE DISPLAY  
(GMT / UTC)  
CALIBER: 771\*\*\***

\*\*\* This movement has a power reserve of up to 80 hours.

## THE CROWN HAS 3 POSITIONS

### 1. Normal position

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

### 2. To set the time and the second time zone

Pull the crown out to position 3 and turn it forwards or backwards until the desired time is set.

The 24-hour hand also moves to set the desired time in the second time zone.

Accept by pushing the crown back to position 1 to coincide with a given time signal.

### 3. Setting the hour (changing the time zone or from summer to winter time) and the date

Pull the crown out to position 2 and turn it forwards or backwards until the desired date appears.

The hour hand moves in one-hour jumps. Push the crown back to position 1.

*NOTE: Date setting is not recommended between 8 pm and 2 am.*

**HAND-WOUND MECHANICAL WATCHES  
WITHOUT DATE DISPLAY  
CALIBER: 510**

**THE CROWN HAS 2 POSITIONS**

**1. Normal position**

When pressed in against the case (position 1), the crown ensures that the watch is water-resistant (if not damaged).

**Winding**

This mechanical calibre is hand-wound. In order to ensure continuous operation of the watch, it must be fully wound once a day by turning the crown forwards in position 1.

**2. To set the time**

Pull the crown out to position 2, and turn it forwards or backwards to the desired time.

