

Solarwerk Solarmovement

J622.10 J622.50

ENGLISH

Congratulations on becoming the owner of an original Junghans!

Junghans watches are and always have been something special. They have made watchmaking and design history. And we are still doing so today. For the story of success that began in 1861 in Schramberg in the Black Forest continues with each new model. Present in every watch are the elements that make Junghans special: style, passion, innovative spirit and precision right down to the tiniest detail. Put another way: when traditional craftsmanship, leading edge watch technology and classy design come together, then it is a genuine Junghans. A watch for all those who live their own style — and on that we can not do other than congratulate you!

Your

Uhrenfabrik Junghans GmbH & Co. KG

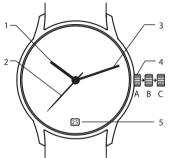
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1. Environmentally friendly solar technology

Technology that requires no battery! Light — whether sunlight or artificial — permeates the solar dial or the light transparent dial. This transforms the light into electrical energy, which is then stored in a long-lasting energy store. The energy store serves as an energy source for the solar wristwatch and enables the watch to function — even in complete darkness.

2. Solar wristwatch J622.10

2.1 Operating elements and functions



- 1 Hour hand
- 2 Second hand3 Minute hand
 - Crown
- 5 Date display

Setting the time

Pull the crown to position C. This stops the movement. To set the watch accurately to the second it helps to stop the movement when the second hand is over the 6o. You can now position the minute hand on the minute marker and set the required time. Return the crown to position A to start the second hand.

Setting the date

Pull the crown into position B. Rotate the crown to the right to set the date. Date alteration should not be performed between 8 PM and 2 AM, as in this period the date is switched automatically by the movement and damage may be caused to the switching mechanism. If the month has less than 31 days, the date must be forwarded to the 1st of the following month by hand.

2.2 Charging control display

To ensure that your Junghans solar wristwatch is always ready for use you should ensure that it is not lacking energy. The watch checks the charging status of the energy store at regular intervals. If this reveals insufficient energy, the second hand begins to move in 2-second stages. In this case you should recharge the watch as soon as possible.

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2.3 Charging times J622.10 Daily operation

The following table shows how long the watch needs to be exposed to the light each day in order to generate sufficient electricity for normal, daily operation, without discharging the battery.

Light source	Lux	Daily operation
Sunlight outdoors	approx. 50.000	2 mins.
Sunlight through a window	approx. 10.000	5 mins.
Daylight though a window on a cloudy day	approx. 5.000	8 mins.
Fluorescent lighting	approx. 500	1 hour

Please ensure that the watch is not exposed to temperatures over 50 degrees Celsius during the charging process.

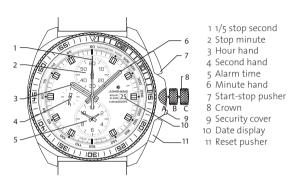
Following complete discharge

The following table shows you the charging times following complete discharge of the energy store. These charging times are dependent on the intensity of the light source. The guideline values stated in the table are for orientational use only. Please note that the design of the solar dial affects the charging time.

Light source	Lux	Charging time until the watch is started	Charging time until complete charging of the energy store	
Sunlight outdoors	approx. 50.000	approx. 2 hours	approx. 1 day	
Sunlight through a window	approx. 10.000	approx. 1 day	approx. 4 days	
Daylight though a window on a cloudy day	approx. 5.000	approx. 2 days	approx. 8 days	
Fluorescent lighting	approx. 500	_	_	

Please ensure that the watch is not exposed to temperatures over 50 degrees Celsius during the charging process.

3. Solar alarm chronoscope J622.50



3.1 Crown lock

Please note: your Junghans solar alarm chronoscope is equipped with a crown lock.
You have the possibility of blocking crown position C to prevent undesired adjustment of the hand position. To do this, slide the security cover (9) between the crown and the reset pusher (11) upwards until it clicks into place. Sliding the security cover (9) back down means that all functions of



3.2 Operating elements and functions Setting the time

the crown are available again.

Pull the crown to position C. This stops the movement. To set the watch accurately to the second it helps to stop the movement when the second hand (4) is over the 6o. You can now position the minute hand (6) on the minute marker and set the required time. Return the crown to position A to start the second hand (4).

Setting the date

Pull the crown into position B. Rotate the crown to the right to set the date (10). Date alteration should not be performed between 20 PM and 2 AM, as in this period the date is switched automatically by the movement and damage may be caused to the switching mechanism. If the month has less than 31 days, the date (10) must be forwarded to the 1st of the following month by hand.

3.3 Charging control display

To ensure that your Junghans alarm chronoscope is always ready for use you should ensure that it is not lacking energy. The watch checks the charging status of the energy store at regular intervals. If this reveals insufficient energy, the second hand (4) begins to move in 2-second stages. During this time the chronoscope and alarm function is deactivated. You should therefore recharge the watch as soon as possible.

If the watch is operated at low energy levels for a longer period of time or stored with empty energy levels, to ensure secure functioning please conduct a reset (3.7) before setting the alignment of the counters to the zero position (3.8).

3.4 Charging times J622.50 Daily operation

The following table shows how long the watch needs to be exposed to the light each day in order to generate sufficient electricity for normal, daily operation, without discharging the battery.

Light source	Lux	Daily operation	
Sunlight outdoors	approx. 50.000	2 mins.	
Sunlight through a window	approx. 10.000	4 mins.	
Daylight though a window on a cloudy day	approx. 5.000	7 mins.	
Fluorescent lighting	approx. 500	1 hour	

Please ensure that the watch is not exposed to temperatures over 50 degrees Celsius during the charging process.

Following complete discharge

The following table shows you the charging times following complete discharge of the energy store. These charging times are dependent on the intensity of the light source. The guideline values stated in the table are for orientational use only. Please note that the design of the solar dial affects the charging time.

Light source	Lux	Charging time until the watch is started	Charging time until complete charging of the energy store
Sunlight outdoors	approx. 50.000	approx. 36 mins.	approx. 1 day
Sunlight through a window	approx. 10.000	approx. 3 hours	approx. 4 days
Daylight though a window on a cloudy day	approx. 5.000	approx. 8 hours	approx. 7 days
Fluorescent lighting	approx. 500	_	_

Please ensure that the watch is not exposed to temperatures over 50 degrees Celsius during the charging process.

3.5 Operating the chronoscope

Starting time measurement (max. stop time 60 minutes)

Begin the chronoscope function by pressing the start-stop pusher (7).

Stopping time measurement

Stop the chronoscope function by pressing the start-stop pusher (7) again.

Resetting

Press the reset pusher (11). The stop minute (2) and the 1/5 second counter (1) return to the zero position.

Addition time measurement

Stop times may be added by pressing the start-stop pusher (11) again after the initial measurement, in place of the reset pusher (7). The chronoscope hands will then recommence from the stopped position. Stop the chronoscope function by pressing the start-stop pusher (7) again. To return the chronoscope hands to the zero position, press the reset pusher (11).

Measuring split times

During the time measurement process it is possible to display a split time without stopping the stopwatch process. To do this, start measurement using the start-stop pusher (7). To read the split time operate the reset pusher (11). The time measurement continues in the background. Pressing the reset pusher (11) again results in the chronoscope counter advancing rapidly to catch up with the time that has elapsed. Stop the chronoscope function by pressing the start-stop pusher (7) again. To return the chronoscope hands to the zero position, press the reset pusher (11).

3.6 Alarm

For correct functioning of the alarm, the alarm display (5) must also show the current time:

Step 1: Set current time

Pull the crown to position C. Press the reset button (11)

- briefly for individual adjustments or

hold pressed for a running time setting

until the current time is shown in the alarm display (5).

Then push the crown back into position A.

Step 2: Set alarm time

Pull the crown to position B.

Set the desired alarm time (5) with the reset button (11).

To start the alarm, push the crown back into position A and screw it in.

Your watch now shows the set alarm time in the alarm display (5). When the alarm time is reached, an acoustic signal sounds for 20 seconds. You can cancel the alarm at any time by pressing a button (7/11).

Please note: After the alarm has been triggered, this is no longer active. The alarm display (5) shows the current time until the next activation. To set a new alarm, proceed as described above using the reset button (π) .

3.7 Resetting the calibre J622.50

Following complete discharge of the energy store it is advisable to conduct a reset. To do this, pull the crown to position C. Ensure that the crown is not locked. Operate the start-stop pusher (7) and the reset pusher (11) simultaneously for at least 2 seconds. Now push the crown back into position A. The reset is completed, now set the correct time and date (10).

3.8 Setting the counters to the zero position

If one or more of the chronoscope counters are not in the correct position (e. g. following complete discharge of the energy store), these should be set: pull the crown into position C.

Alarm hands

Ensure that the crown is not locked. Now operate the reset pusher (11) to adjust the alarm hands (5). Operate the reset pusher (11) briefly for a single step and longer for continuous setting, until the alarm hands (5) display the current time. If the adjustment is activated with the alarm

activated but not triggered, the alarm hands (5) will first move to the current time.

Stop minute hand

To adjust the stop minute hand (2) operate the start-stop pusher (7) for 2 seconds. The hand (2) rotates one full rotation and stops at the start position. Now operate the reset pusher (11) to adjust the stop minute hand (2), a short push for minute steps, a longer push for continuous adjustment.

Stop minute hand

To adjust the stop minute hand (2) operate the start-stop pusher (7) for 2 seconds. The hand (2) rotates one full rotation and stops at the start position. Now operate the reset pusher (11) to adjust the stop minute hand (2), a short push for minute steps, a longer push for continuous adjustment.

To adjust the stop minute hand (2) operate the start-stop pusher (7) again for 2 seconds. The hand (1) rotates one full rotation and stops at the start position.

1/5 Stop second hand

Now operate the reset pusher (11) to adjust the stop second hand (1), a short push for minute steps, a longer push for continuous adjustment.

Following correct adjustment of all hands, press the crown back into position A and lock the crown with the security cover (9) to avoid unintentional adjustment of the hand position.

4. Information for watches with tachymeter scale

Reading the tachymeter scale

The scale is based on a stretch of one kilometre. At the beginning of the stretch the stopwatch function is activated and the time lapsed stopped after one kilometre. The second hand displays the average speed travelled on the scale.

An example: you are travelling along the motorway as a PASSENGER in a car. The reflector posts have a spacing of 50 m. You begin the stopwatch operation at the first reflector post and end the process on the twenty first. You have consequently travelled one kilometre. The second hand now shows you the average speed. If you require 30 seconds for one kilometre, your average speed is 120 km/h.



5. Operational readiness J622

To maintain your solar wristwatch in an operational condition you should keep it in as bright a place as possible. Please note that the solar dial should not be covered by clothing for long periods as this can reduce the operational capability of your watch. If the energy store is discharged, hold your watch in bright light to recharge it rapidly. The charging time of your solar wristwatch is dependent on the intensity of the light source and the design of the solar dial. The guideline values stated in the tables (page 32 + page 37) serve as an aid here.

Important:

Do not hold your wristwatch too close to heat-generating light sources! Do not leave your watch in direct sunlight for long periods! Temperatures above 50° C may result in damage to the watch!

6. Technical data

Calibre J622.10

Quartz solar watch

Dark power reserve up to 4 months

Operating temperature o° to + 50° C

Calibre J622.50
Quartz solar alarm chronoscope with 1/5 stop second and alarm
Dark power reserve up to 6 months
Stop time 60 minutes
Operating temperature 0° to + 50° C

Subject to technical alterations.

Declaration of conformity

Uhrenfabrik Junghans GmbH & Co. KG hereby declares that this wrist-watch complies with the essential requirements and other relevant provisions of Directive R&TTE2014/53/EU. A corresponding Declaration of Conformity can be requested at info@junghans.de.

7. General information

The water resistance of your watch can be affected by external influences, which can cause moisture to enter the watch. We therefore recommend regular checkups by a Junghans specialist. Servicing and bracelet repairs should also be carried out by an authorised Junghans service partner.

Please avoid direct contact with alcohol containing perfumes, disinfectants and chemical cleaning detergents (e.g. petrol or paint thinner), as this will shorten the life of the glass, gaskets and leather strap.

Your watch is equipped with a quality strap which has been tested inhouse several times. If you would like to change your strap please use a strap of the same quality, preferably an original strap. The watch and leather straps can be cleaned with a dry or slightly damp cloth. Metal bracelets should preferably be cleaned with a small brush and soapy water.

8. Water resistance

Marking	Instructions for use				
	Washing, rain, splashes	Shower	Bath	Swimming	Diving without scuba tanks (snorkelling)
No mark	No	No	No	No	No
3 BAR	Yes	No	No	No	No
5 BAR	Yes	No	Yes	No	No
10 BAR	Yes	Yes	Yes	Yes	No
20 BAR	Yes	Yes	Yes	Yes	Yes
30 BAR	Yes	Yes	Yes	Yes	Yes

The water resistance as prescribed by DIN is a design engineering characteristic which is susceptible to external influences such as shock, fluctuations in temperature, UV light and direct contact with cosmetics and cleaning products (greases and acids). The "3–30 BAR" condition is thus only applicable for brand new watches. We recommend having the watch inspected at regular intervals.



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