



# Automatikwerk

Self-winding movement

J880.3

J880.4

JUNGHANS - DIE DEUTSCHE UHR

## JUNGHANS – THE GERMAN WATCH

Many congratulations on your purchase of a timepiece from Junghans.

What began in 1861 with the founding of the firm in Schramberg quickly developed into one of the most fascinating success stories of the German watchmaking industry. While since that time the demands made of watches may have changed, the Junghans philosophy has always remained the same. Innovative flair and the constant pursuit of precision right down to the smallest detail define how the company works and thinks. You can see and sense this in every watch that carries the Junghans name. For as diverse as the Junghans range may be, it pursues one single goal: to combine traditional craftsmanship with cutting-edge watch technology and exciting design. That makes every watch with the Junghans star unique.

We hope you will enjoy this very special time-keeping instrument.

Yours,  
Uhrenfabrik Junghans GmbH & Co. KG

## Contents

Page

Operating instructions calibre J880.4

22

Operating instructions calibre J880.3

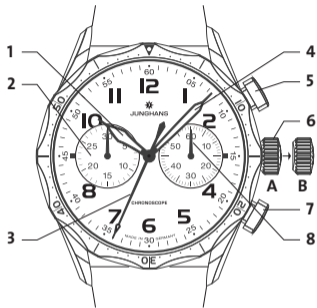
24

Technical information

28

## Features and functions

### Calibre J880.4



- 1 Hour hand
- 2 Minute counter
- 3 Stop second counter
- 4 Minute hand
- 5 Start-stop pusher
- 6 Crown
- 7 Reset pusher
- 8 Second hand

### Winding up the watch

With the winder in position A, you can wind up the automatic movement manually. At least 2 to 3 rotations of the winder are needed to start the movement. It is better to wind it up completely. It is fully wound up after c. 30 rotations of the winder, as then the maximum accuracy and its power reserve (even after the watch is put down) will last for the maximum period. After you have set your watch, you should wear it, so that the automatic winding system (via rotor movement) keeps it constantly operational.

### Setting the time

Pull the crown to position B. This stops the watch movement. To set the watch accurate to the second it is advisable to stop the second hand above the 60. You can now position the minute hand exactly on the minute line and set the required time. To start the movement press the crown back to position A.

### Chronoscope functions

#### Initiating time measurement

Begin the chronoscope function by pressing the start-stop pusher (5).

#### Stopping time measurement:

Stop the chronoscope function by pressing the start-stop pusher (5) again.

#### Resetting:

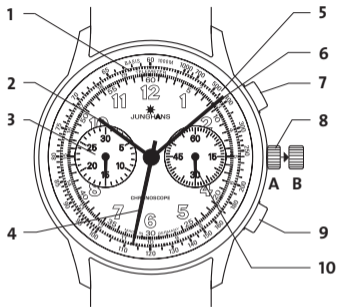
Press the reset pusher (7). This resets both stopwatch hands to their zero position.

#### Addition time measurement:

Press the start-stop pusher (5) again after the respective measurement to add the stop times. The chronoscope hands will then recommence from the stopped position.

## Features and functions

### Calibre J880.3



- 1 Telemeter scale
- 2 Hour hand
- 3 Minute counter
- 4 Stop second counter
- 5 Tachymeter scale
- 6 Minute hand
- 7 Start-stop pusher
- 8 Crown
- 9 Reset pusher
- 10 Second hand

### Winding up the watch

With the winder in position A, you can wind up the automatic movement manually. At least 2 to 3 rotations of the winder are needed to start the movement. It is better to wind it up completely. It is fully wound up after c. 60 rotations of the winder, as then the maximum accuracy and its power reserve (even after the watch is put down) will last for the maximum period. After you have set your watch, you should wear it, so that the automatic winding system (via rotor movement) keeps it constantly operational.

### Setting the time

Pull the crown to position B. This stops the watch movement. To set the watch accurate to the second it is advisable to stop the second hand above the 60. You can now position the minute hand exactly on the minute line and set the required time. To start the movement press the crown back to position A.

### Chronoscope functions

#### Initiating time measurement

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 (9). This resets both stopwatch hands to their zero position.

#### Addition time measurement:

Press the start-stop pusher (7) again after the respective measurement to add the stop times. The chronoscope hands will then recommence from the stopped position.

## Tachymeter scale

The tachymeter scale indicates the average speed travelled over a defined distance. The scale is based on a distance of one kilometre.

At the beginning of the distance start the timing procedure by pressing the start-stop pusher (7). After one kilometre stop the timing procedure by pressing the start-stop pusher again (7). The second hand displays the average speed travelled on the scale.

For example: You are travelling as a PASSENGER in a car on the motorway. The reflector posts are at intervals of 50 m. You start the timing procedure at the first reflector post and end the procedure at the 21st. You have therefore covered a distance of 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.



## Telemeter scale

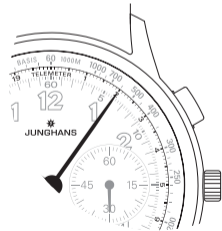
The telemeter scale is used to estimate the distance in kilometres between a visible light, e.g. a flash of lightning, and hearing the accompanying noise.

Begin the timing procedure by operating the start-stop pusher (7) on seeing the light, such as a flash of lightning. As soon as the sound of thunder is audible, press the start-stop pusher again (7). You can now read the distance of the storm in km on the telemeter scale.

An example: If the stop second hand on the telemeter scale stops at the "2", then the storm is 2 km away. (2000 m: 334m/s = 5.99 seconds = telemeter scale "2").

As light travels at the speed of light, the time that the flash of lightning requires to reach your location is negligible.

This is not the case with thunder, however, as this travels at the speed of sound, i.e. at approximately 334 m/s (at an air temperature of approximately 5°).



## Technical information






### Calibre J880.3

Automatic movement with chronoscope function  
Bi-directional automatic winding mechanism  
28,800 semi-vibrations per hour  
Power reserve 42 hours (without chronoscope function)  
Anti-magnetic as per DIN 8309

### Calibre J880.4

Automatic movement with chronoscope function  
Bi-directional automatic winding mechanism  
28,800 semi-vibrations per hour  
Power reserve 38 hours (without chronoscope function)  
Anti-magnetic as per DIN 8309

## Impermeability

Designation	User Information				
	 Washing, rain, splashes	 Showering	 Bathing	 Swimming	 Diving without equipment
<b>no designation</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>3 ATM</b>	<b>yes</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>5 ATM</b>	<b>yes</b>	<b>no</b>	<b>yes</b>	<b>no</b>	<b>no</b>
<b>10 ATM</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>no</b>

The designation "3–10 ATM" only applies to brand new watches. External influences can affect water resistance. Please have your watch checked regularly.

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