

### Setting Instruction Slide Rule Chronograph

Thank you for purchasing an original ZENO Timekeeper.  
To ensure correct use, please read these instructions carefully.



[www.zeno-watch.ch](http://www.zeno-watch.ch)

  
ZENO-WATCH BASEL



Slide Rule - Calculator

The water resistance is only guaranteed if the watch is declared by "waterproof" and the watch has not been subjected to severe shocks, the crystal and crown are not damaged, and the instructions have been carefully followed.

WATER RESIST (water protected) = The watch is protected against water drops (the watch has to be protected against water!)

WATERRESISTANT 30M (3ATM) = The watch you can use for car washing, bathing, shower, mountain climbing, parachuting, hang gliding, or skiing - it is resistant against perspiration, water vapour, rain drops.

WATERRESISTANT 100 M (10ATM) = The watch you can use for water sport, snocheling, swimming, car washing, bathing, shower, mountain climbing, parachuting, hang gliding, skiing - it is resistant against perspiration...

WATERRESISTANT 200 M (20ATM) = The watch you can use for diving (without equipment), water sport, snocheling, swimming, car washing, bathing, shower, mountain climbing, parachuting, hang gliding, skiing - it is resistant against perspiration, water vapour, rain drops.

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#### **INSTRUCTION Valioux 7750**

**1 Activate the Chronograph**

Press pusher A

**2 Stop the Chronograph**

Press pusher A (can be activated again, by pusher A)

**3 Reset to Zero**

Press pusher B  
(Chronograph functions are stopped and reset to zero)

**Specifications:** Swiss precision self-winding movement (automatic) Swiss Made, time, day and date indication, stopwatch (measuring 60 second, 30 minute, 12 hours) 25 jewels, 28'800 pulsation per hour, Incabloc anti-shock system, nivaflex spring, tight tolerance of adjustment, power reserve till 42 hours.

Owner will be charged for postage, insurance and such costs as may be incurred outside the normal repair costs under the guarantee. For those customers requiring their watches to be repaired in countries other than those where the purchase was originally made, repair services are available though it is to be acknowledged that it might take somewhat longer than normal.

Our service is, also available after the guarantee period has expired for repair and maintenance work against an appropriate charge. [Payment in advance]. Sometimes it is cheaper to contact first a qualified watchmaker in your area. (He must have experience with Swiss Watches!). Please ask your watchmaker for a free estimate!

Please note that ZENO only ensures full warranty when the ZENO watch is bought directly from one of the authorized dealers. The warranty certificate must be properly stamped, signed with the dealers name and show the exact date of purchase.

Only authorized ZENO retailer or other authorized Service Centres are qualified to ensure proper after-sales service and are authorized to provide the warranty services in accordance to ZENO quality standards.

### Have you got a problem with your watch?

Your nearest ZENO Represent is usually the best place to contact for help, and it should certainly be the first.

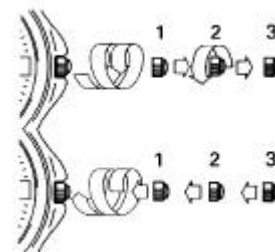
1. Please contact first your ZENO dealer and ask for a Service-Centre in your country.  
(You will find the address of your dealer in the guarantee certificate)
2. In case there is no Service-Centre in your country, please send the watch back to your dealer or to the worldwide Service-Centre:

**ZENO-WATCH BASEL**  
**Service-Centre - P.O. Box - CH-4013 Basel (Switzerland)**

Please send your watch, carefully packed, together with \$ 20.- in cash (to cover return postage and handling charges), the guarantee certificate, completed with your correct name and return address. For costume reasons please declare the goods to be R E P A I R E D !!!

Repairs without original and signed international ZENO guarantee certificate or after the guarantee period will be charged.

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### SETTING TIME AND CALENDAR

- 1 **neutral position** (unscrew crown first)  
= winding position
- 2 **day + date adjustment position**  
↻ forward quick date-adjustment  
↻ backward quick day-adjustment
- 3 **hand setting and second stop position**  
- Adjust hour and minute by turning the crown

**Warning:** Date correction cannot be effected between 8 pm and 2 am. While turning the hands please observe that date will change at 12 pm (midnight).

The watch will now be set correctly and running. The automatic movement will keep the watch wound as long as the watch is worn. The Chronograph is an independent timing system for brief intervals of time. **Before using the Chronograph make sure the watch has been wound up.**

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#### **INSTRUCTION Dubois Dépraz 2020**

- 1 **Activate the Chronograph**  
Press pusher A
- 2 **Stop the Chronograph**  
Press pusher A (can be activated again, by pusher A)
- 3 **Reset to Zero**  
Press pusher B  
(Chronograph functions are stopped and reset to zero)

**Specifications:** Swiss precision self-winding movement (automatic), time indication, stopwatch (measuring 60 second, 30 minute, 12 hours) 25 jewels, 28'800 pulsation per hour, Incabloc anti-shock system, mivaflex spring, tight tolerance of adjustment, power reserve till 42 hours.

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#### **Be sure to use the watch with the crown pressed in (normal position).**

If your watch has a screw-type crown, be sure to tighten the crown completely. Do not operate the crown with wet fingers or when the watch is wet. Water may enter the watch and compromise water resistance. If moisture has entered the watch, or if the inside of the crystal is fogged up and does not become clear within a day, or seawater enters the watch, immediately take the watch to a Zeno Service Centre for repair. Leaving the watch in such a state will allow corrosion to form inside. Keep your watch clean. Dust and dirt tend to collect in gaps in the back of the case or band. Accumulated dust and dirt may cause corrosion and soil your clothing. Clean the watch occasionally. Use a soft dry cloth to wipe off dirt, perspiration and water from the case and crystal. Do not use the watch in places where it is exposed to high temperature. Doing so may result in deterioration of the watch or parts. Do not place the watch on a magnet. Timekeeping will become inaccurate. Store your watch in a dry place when you are not using it.

#### **Further information see guarantee card!**

Please be sure to check the ZENO-WATCH internet Web site for the latest listing of World Wide Service Centres at [www.zeno-watch.ch](http://www.zeno-watch.ch)

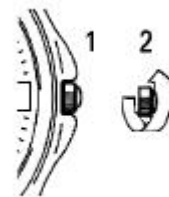
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### 15. CURRENCY-OPERATION

**Example:** Swiss Francs 35 into Euro  
**Operation:** Align „14“ on the outer scale with „10“ on the inner scale (in this case the actual course is Swiss Francs 14 to 10 Euro). Then „35“ on the outer scale corresponds to „25“ on the inner scale. All on the inner scale corresponds with the outer scale SFr. To Euro (or other Currency)



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### SETTING TIME

- 1 neutral position  
Winding position
- 2 hand setting and second stop position  
Adjust hour and minute by turning the crown

The watch will now be set correctly and running. The automatic movement will keep the watch wound as long as the watch is worn. The Chronograph is an independent timing system for brief intervals of time. **Before using the Chronograph make sure the watch has been wound up.**

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### USE SLIDE RULE

This slide rule is god for multiplication, division, proportion, square root, time required, fuel consumption, estimated flighttime and other Fly problems.



Speed index  
Outer scale  
(distance scale)  
Inner scale  
(Time scale)

Note the following points when using this function. Use the calculation function of this watch only as a guide.

Scales like these cannot, place a decimal point for you

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### 13. PROPORTION

**Example:**  $30/10 = 60/x$

**Operation:** Align "30" on the outer scale with "10" on the inner scale. Then, "90" on the outer scale corresponds to "30" on the inner scale. At this point the proportion for every value on the inner and outer scales is 30:10.



### 14. SQUARE ROOT

**Example:** Square root of 900

**Operation:** Turn the outer scale slowly and find a value that corresponds to both "90" on the outer scale and "10" on the inner scale. In this example, "90" on the inner scale corresponds to "30" on the inner scale, and "10" on the inner scale corresponds to "30" on the outer scale. Thus, the answer is 30.



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### 11. MULTIPLICATION

**Example:**  $39 \times 20$

**Operation:** Align "39" on the outer scale with "10" on the Inner scale. Then, "15" on the inner scale corresponds to "20" on the outer scale. Take into account the position of the decimal point and add one zero to obtain **780**. Note that with r scales of this watch, the position of the decimal point cannot be obtained.



### 12. DIVISION

**Example:**  $900 \div 47$

**Operation:** Align "90" on the outer scale with "47" on the inner scale. Then, "10" on the inner scale corresponds to "19.1" on the outer scale. Take into account the position of the decimal point to obtain 19.1.



### 1. TIME REQUIRED

**Example:** Obtain the time required for the flight of an aircraft at 180 knots for 450 nautical miles.  
**Operation:** Align "18" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "45" on the outer scale corresponds to "150.1" on the inner scale (time scale). Thus, the time required for the flight is 2 hours and 30 minutes.



### 2. KNOTS (AIR SPEED)

**Example:** Obtain the knots (air speed) for 240 nautical miles with a flight time of 1 hour and 20 minutes.  
**Operation:** Align "24" on the outer scale with "8" on the inner scale (time scale). Then, the SPEED INDEX (▲) on the inner scale corresponds to "18" on the outer scale. Thus, the air speed for the flight is 180 knots.



### 3. FLIGHT DISTANCE

**Example:** Obtain the air distance when the air speeds is 180 knots and the flight time is 40 minutes.

**Operation:** Align "18" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then "40" on the inner scale corresponds to "12" on the outer scale. Thus, the air distance of the flight is 120 nautical miles.



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### 4. RATE OF FUEL CONSUMPTION

**Example:** Obtain the rate of fuel consumption (gallons/hour) when the flight time is 30 minutes and the fuel consumption is 130 gallons.

**Operation:** Align "13" on the outer scale with "30" on the inner scale. Then, the SPEED INDEX (p) on the inner scale corresponds to "26" on the outer scale. Thus, the fuel consumption is 260 gallons per hour.



### 9. TIME OF CLIMB (OR DESCENT)

The time required for climb can be obtained from the altitude to be reached and the rate of climb (or descent).

**Example:** Obtain the time of climb when an aircraft is to climb to 6,300 feet at a rate of 390 feet per minute.

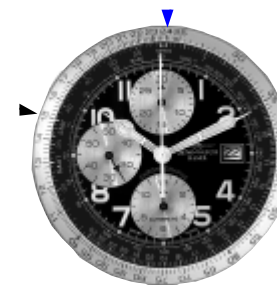
**Operation:** Align "39" on the outer scale with "10" on the inner scale. Then, "63" on the outer scale corresponds to "16" on the inner scale. Thus, the time of climb is 16 minutes.



### 10. CONVERSION

**Example:** Convert 24 statute miles into nautical miles and kilometers.

**Operation:** Align "24" on the outer scale with STAT (I) on the inner scale. Then, NAUT (▲) on the inner scale corresponds to "15" nautical miles on the inner scale, and "12 km" (s) on the inner scale corresponds to "48.2" km on the outer scale.



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### 7. DIFFERENCE IN ALTITUDE

The difference in altitude can be obtained from rate of descent and the descent time.

**Example:** Obtain the difference in altitude when an aircraft continues descending for 20 minutes at a rate of 430 feet per minute.

**Operation:** Align "43" on outer scale with "10" on the inner scale. Then, "20" on inner scale corresponds to "86" on outer scale. Thus, the difference in altitude is 8,600 feet.



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### 8. RATE OF CLIMB (OR DESCENT)

The rate of climb (or descent) can be obtained from the time required to reach an altitude.

**Example:** Obtain the rate of climb when an aircraft reaches an altitude of 7,500 feet after climbing for 25 minutes.

**Operation:** Align "75" on the outer scale with "25" on the inner scale. Then, "10" on the inner scale corresponds to "30" on the outer scale. Thus, the rate of climb is 300 feet/minute.



### 5. FUEL CONSUMPTION

**Example:** Obtain the fuel consumption required for a flight when the fuel consumption is 236 gallons per hour and the flight time is 9 hours.

**Operation:** Align "23.6" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "9:00" on the inner scale (time scale) corresponds to "35" on the outer scale. Thus, the fuel consumption is 3,500 gallons.



### 6. ESTIMATED FLIGHT TIME

**Example:** Obtain the estimated flight time when the fuel consumption is 260 gallons per hour and the aircraft has 650 gallons of fuel.

**Operation:** Align "26" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "65" on the outer scale corresponds to "150" on the inner scale (time scale). Thus, the estimated flight time is 2 hours and 30 minutes.



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