

NAVITIMER - MANUAL

The crown of the Navitimer has 2 positions:

1. Normal or wearing position – winding
2. Time setting

When the crown is in position 1 the watch can be wound by turning the crown upwards. Turn the crown until it stops. Please be careful to not over-wind the watch. Winding the watch once a day should be enough to ensure the correct functioning of the mechanism. When the crown is against the case this ensures that the watch is water *resistant*. Please note that we do not guarantee the watch being waterproof *or* water resistant.

Please make sure that when you handle the crown in any way the watch is in your hand, not on your wrist. This is because there is a possibility you bend or damage the crown tube and / or case of the watch, should you handle the crown when the watch is on your wrist.

When the crown is pulled out to position 2 it can be turned upwards to adjust the time.

USING THE TACHOMETER

The tachometer is the graduation on the dial or flange of your BREITLING chronograph enabling you to determine average speeds or hourly productivity rate, based on an observation period of less than 60 seconds.

1. Press pushpiece A to start the chronograph.
2. Stop the measurement by pressing pushpiece A once more.
3. Using the chronograph to measure the time required to cover a kilometer or a mile. If it takes 20 seconds to cover 1 km or 1 mile, the scale respectively indicates an average speed of 180 km/h or 180 miles/h.

SLIDE RULE

The computer portion of the watch will require a little time and patience to master, if the pilot is unfamiliar with standard flight computers. It is actually a circular slide rule and will make accurate computations involving multiplication and division in terms of time, distance, fuel consumption and other normal flight and navigation computations dealing with speed, time and distance.

Inspection of the watch will reveal that there is an outer scale on which will be found numbers running from 10 to 10 (the figure «10» may be 1.0, 10, 100.). On the outer perimeter of the dial of the watch is a second similar scale. Note that the outer scale will always be related to miles, or miles per hour, feet, or feet per minute, gallons, or gallons per hour, or any quantity which varies with time. The inner scale deals with minutes or hours in all problems involving time.

At 60 minutes on the inner scale there is an arrow which is marked «MPH». This is sometimes known as the «ground speed index» or «hour index». This index is used in problems involving any quantity per hour.

MULTIPLICATION

The Navitimer can be used for multiplication. Use the unit index, this is the number 10 in red on the inner scale. Set the number by which you want to multiply another number next to the unit index on the inner scale and read the answer on the outer scale opposite the multiplicand (number to be multiplied by another) appearing on the inner scale.



Example

To multiply 7×12 , set the 12 on the outer scale next to the unit index (red 10) on the inner scale.

Next to the 7 (the multiplicand) on the inner scale you can read the answer 84 on the outer scale.



EXCHANGE RATE

The Navitimer can also be used to calculate exchange-rates between two currencies.

Example

To convert an amount in EURO into U.S. dollars at the (supposed) rate of $1 \text{ USD} = 1,10 \text{ euro}$, simply place the number 11 (= 1.10 euro) on the outer scale opposite the red 10 marking on the inner scale.

Amounts expressed in dollars can now be read on the inner scale and their equivalents in marks on the outer scale: $\text{US\$}40 = 44\text{€}$



DIVISION

The unit index (red 10) is also used to divide with the Navitimer. Place the number that has to be divided by another number on the outer scale next to the divisor (number by which another is divided) on the inner scale. Next to the red "10" you can read the answer on the outer scale.



Example

You want to divide 120 by 4. In this case place the number 120 on the outer scale next to the number 4 on the inner scale.

Now you can read the answer, 30, on the outer scale next to the unit index (red "10" on the inner scale).



SUN COMPASS

The Navitimer can be used as a sun compass, enabling you to determine North and South. Subtract one hour when directing the watch during daylight saving time.

In the Northern hemisphere

If you point the hour hand precisely towards the sun, the point midway between the current time and 12 o'clock indicates the South, the North being exactly opposite.

In the Southern hemisphere

Point the 12 o'clock position towards the sun. The point midway between the current time and 12 o'clock indicates the North, the South being exactly opposite.

