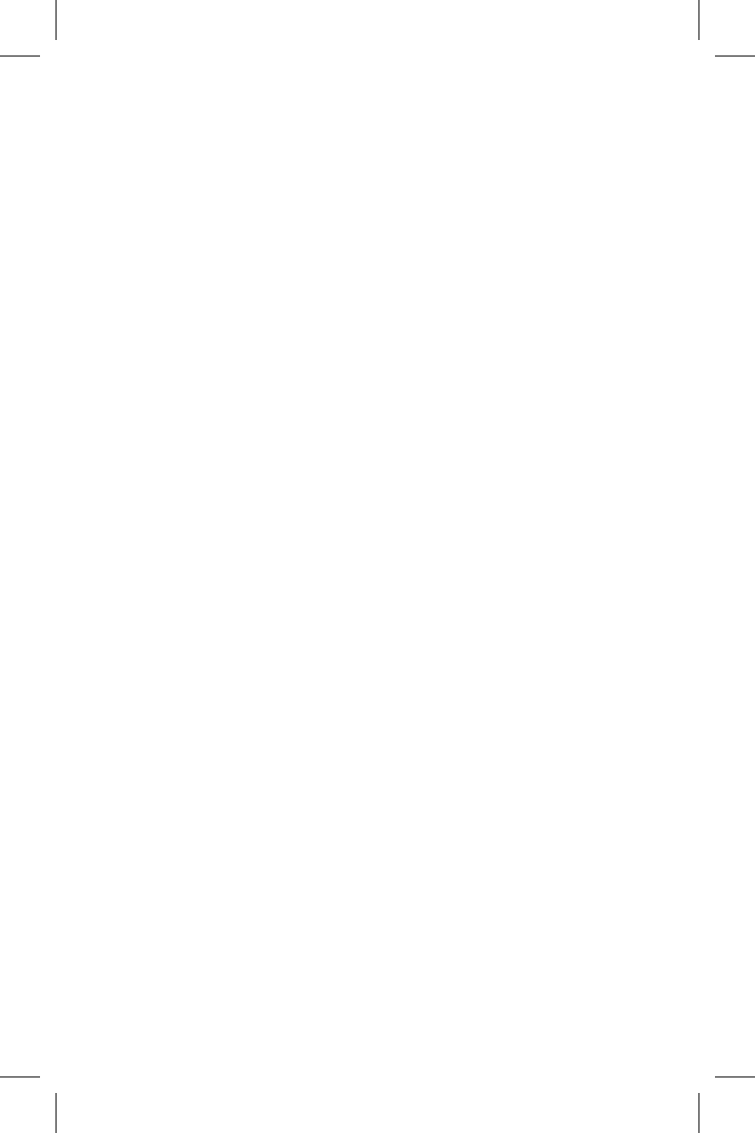




ARNOLD & SON

1764

Instruction Booklet  
**DSTB**



## **DSTB**

Thank you for choosing Arnold & Son, we are proud to have you as Owner of the *DSTB* (*standing for Dial Side True Beat*).

The entire true beat seconds mechanism, with its anchor-shaped lever paying homage to 18th century British marine chronometers, is visible on the dial side, which makes your *DSTB* so unique.

The true beat seconds is a traditional complication from Arnold & Son, and *DSTB* pays homage to John Arnold, first watchmaker to develop marine chronometers that could be produced in quantity and at a reasonable price. Technically superior and widely used by navigators, Arnold's marine chronometers reflected his commitment to the exceptional accuracy necessary for determining longitude at sea.

As for each Arnold & Son's timepiece, *DSTB* was born in our Manufacture of La Chaux-de-Fonds (Switzerland). Developed, produced, and assembled by our skilful designers, engineers, and watchmakers.

# I. Operation

## Displays

Your watch indicates hours and minutes in a subdial at 4:30 and the true beat seconds with its large hand in a counter at 11 o'clock.

### True beat seconds

The true beat seconds (also known as dead seconds) jumps forward when the second has elapsed. This mechanical function is considered as a technical feat and a real complication.

The story of the true beat seconds is linked to the development of precision timekeeping as required in navigation, for example. This function harks back to marine chronometers as the longitude was at that time defined in seconds and not in fractions of a second. Geographical coordinates were therefore given using the sexagesimal system (i.e., degrees [°] minutes ['] and seconds ["]). The need to read the true seconds was therefore essential to precisely calculate the longitude and determine a geographical position at sea.

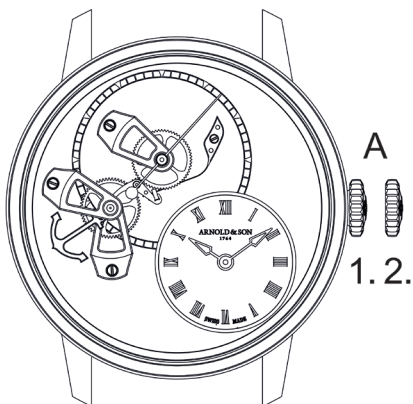
Highly sophisticated, *DSTB's* true beat seconds mechanism is composed of three bridges, two wheels, a lever with a ruby pallet and its anchor-shaped counterweight.

## Winding

Your watch has an automatic winding mechanism and does not require any manual winding unless it has not been worn or not worn long enough.

The movement can be wound by turning the crown "A" when it is in its winding position 1.

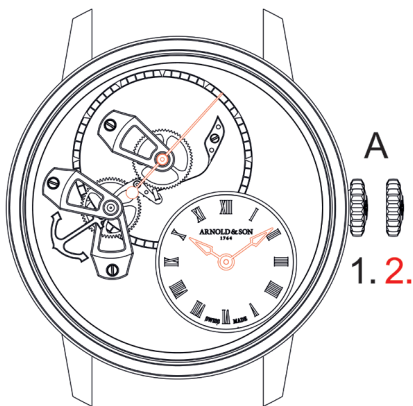
You should then wear your watch so that the automatic movement fully winds up the power reserve.



## Setting

### Time

To set the time (hours and minutes hands), pull the crown "A" to position 2 and turn it in a clockwise or anti-clockwise direction.



Note: do not forget to push the crown "A" back to its winding position 1 when you have set it, in order to guarantee the water-resistance of your watch.

## II. Technical characteristics

### Movement

Equipped with the A&S6203 self-winding calibre, your watch indicates the hours, minutes and true beat seconds.

Decorated in accordance with the codes of Swiss high-quality watchmaking, the movement is rhodium-plated and finely decorated.

With a fine control system, your movement has been set by one of our watchmakers, in 5 positions to make it operate with optimum accuracy.

#### Technical specifications

- Calibre: A&S6203, mechanical self-winding movement
- Functions: hours, minutes, true beat seconds
- Jewels: 32
- Diameter: 36.20 mm
- Thickness: 5.54 mm
- Power reserve: 55 hours
- Frequency: 4Hz (28 800 vibrations/h)

## **Water-resistance**

Your watch is guaranteed to be water-resistant to 3 ATM. This means that it has been verified at a pressure equivalent to immersion at 30 metres. It has been designed to be water-resistant for swimming only and should not be used for deep-sea diving, diving or sports that have a high risk of major shocks, such as windsurfing or water-skiing. Leather straps are not suitable for water sports.

If any use in sea water, clean your watch properly in fresh water and a little soap, rinse it and dry it with a soft cloth.

The water-resistance of your watch can, moreover, be affected by shocks (falls, etc.) or aggressive substances (acids, perfumes, cosmetics, liquid metals, etc.). We therefore recommend that you have the water-resistance of your watch verified once a year, or after it has been subject to a shock, to guarantee its original water-resistance properties.

If water penetrates within the case, or if you notice any sign of humidity, please take your watch to a certified Arnold & Son sales or after-sales partner without delay.

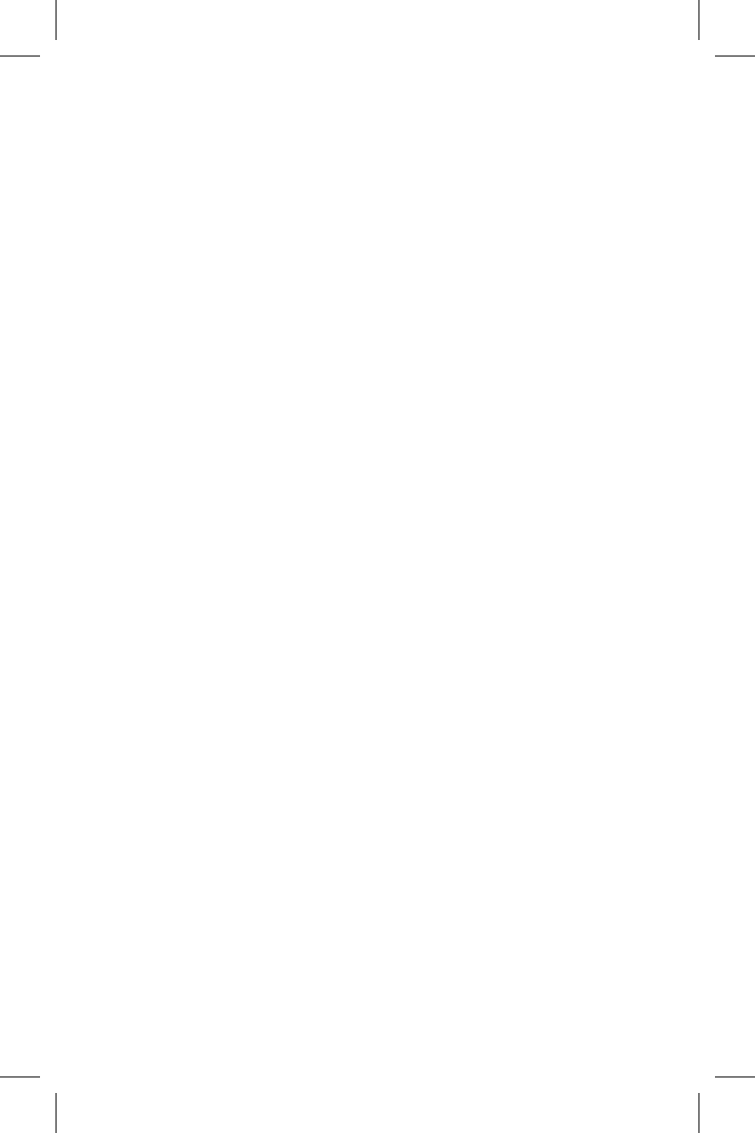


### **III. Maintenance**

Your watch has a mechanical movement which requires cares and adequate maintenance. It should be kept from violent shocks.

The movement in your watch must be serviced at regular intervals because oils change viscosity over time, and this impedes its smooth operation and speeds up wear and tear.

We therefore recommend that you have your watch fully serviced by a certified Arnold & Son after-sales service centre every four to five years to guarantee its smooth operation. Only authorized service centres are recognized for servicing your watch.





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