

Zlatoust watch factory

**CERTIFICATION
of diver watch
model 191 ChS**

Technical Spec. TY 13-02-66

I. CERTIFICATE OF ACCEPTANCE

Diver “Vodolaz” watch model 191 ChS No 1754 complies with required technical conditions, tested and declared suitable for operation

Stamp of OTK – test and control station

Stamp of Radionavigation Chamber of city of Severomorsk (city of the Northern Sea)

Dated September 3, 1977

Stamp “Not Radiation”

II. CONTENTS

- a) Watch mechanism
- b) Protective grid
- c) This certificate
- d) Manual
- e) Cardboard box
- f) Wrist strap
- g) miniature screwdriver

III. TECHNICAL SPECIFICATIONS

1. Mean daily rate from + 1 minute for 24 hours at temperatures ranging from -13 to 77 degrees Fahrenheit (-20 to 20 Celsius with error +- 5 degrees)
2. Duration of full complete spring wind: no less than 30 hours
3. Case provides 1 (one) full hour of water resistance while submerged to depths up to 2300 feet (700 meters).
4. Wight: 9.2 oz (260 grams).

IV.GUARANTEE

Manufacturer is hereby obliged to repair or replace free of charge this watch within a period of 1 (one) year from date of acceptance by the representative of purchaser if the later discovers any defect or non-conformation according to the technical requirements within the set period.

Replacements or repairs may not be requested if the conditions of storage and/or operation were not confirmed to as per this manual.

MANUAL

Usage: diver watch 191 ChS

1. General Description

Diver watch is a mechanism based on 15 ruby jewels mounted in a protective water resistant metal case intended for measure of time in minutes and hours.

Water resistant qualities are provided by:

a) Case and glass are sealed with a compression gasket separator strip. Dial glass is pressed down to the gasket by a metal ring with a threaded connection to the case.

b) Winder knob is protected by a special seal between itself and the case as well as by a screw cap over the knob.

Dial color is black. The scale consists of numerals and divisions of rectangular and/or round shape. Number of hands: 2 (two). Special modifications of this watch may have an addition third hand to display seconds. (!!!)

Numbers and divisions as well as movement hands are printed with fluorescent colors of variable luminosity.

2. Winding of mechanism and setting of dial hands

Remove the outer protective cap to wind the mechanism.

The outer protective cap must be screwed back on after the mechanism has been completely wind or time set.

Precaution: the protective outer cap must be fully screwed back over the winder knob, otherwise water may enter the mechanism rendering it useless.

a) Winding of mechanism:

The mechanism must be wind by rotating the winder knob clock wise until full stop. It is forbidden to use excessive force while winding the mechanism, this action will break the winder spring.

Rotation of winder counter clock wise produces no wind, ie is idle. The mechanism must be wind daily at exactly the same time of day/night.

b) Setting of dial hands:

Dial hands are set by using the winder knob. The knob must be pulled in the direction opposite of the dial until full stop. While in this position, the dial hands may be set by rotating the winder knob. After setting the time the knob must be placed back to its original position by means of applying pressure to the knob in the direction of the dial.

Precaution: 1. The protective cap of winder knob is connected to the case of the watch with a metal chain. The chain must be protected from being broken by means of rotating the attachment ring to which the chain is connected in the direction opposite of the rotation of the outer protective cap.

2. The rubber sealant of the winder knob introduces pressure resistance while the cap is being screwed back on over the winder knob. In turn, this introduces extra pressure on inner/outer thread of the winder/case. To re leave the pressure off the treaded connection while screwing the cap on/off the case pressure must be applied in the direction of the case while performing the rotation. This ensures smooth rotation of the protective winder cap as well as protecting the tread from extra wear.

3. Operation (treatment) of device

The diver watch is a precise mechanism, which requires accurate treatment during transportation and/or usage.

Heavy shocks and blows may not be applied to the mechanism of the watch. In case of a direct heavy blow to the glass the later may crack.

4. Repairs

The diver watch may be repaired in special workshops only.

To repair the seals or glass the outer ring is to be unscrewed.

The outer over-the dial ring may be removed using a special skew press (hand operated skew press) which ensures uniform pressure in the plane of the glass for compression of the sealant.

After performing the compression of the sealant, the outer ring may be removed by means of counter clock wise rotation with hand. The glass, sealant and outer ring may then be removed.

Screws near the numbers “4” and “10” must be turned 1-2 revelations clock wise direction in order to remove the inner sealant between the dial and the mechanism. After this the hands and dial may be removed. Reassembly is performed in the opposite order. The outer cap must me screwed back on over well compressed sealant under glass.

Unqualified personnel may not disassemble the watch, such actions will render the mechanism of the watch useless.

Time precision and water resistance must be tested upon completion of repairs of the watch. It is forbidden to attempt repair of the watch within a period of 2 hours after being subjected to extreme low temperatures after being brought into warmer conditions.

The watch must me cleaned, oiled and precision adjusted no less than once

every two years.

5. Packaging and transportation

Each watch is contained within a carton box. The box contains this manual. The box must be placed in sturdy wooden container, protected by within by a water resistant paper or tar paper.

The carton box containing the diver watch must be placed inside a wooden container. The container must not be able to move around the environment freely. The humidity within the container must not exceed 18 percent.

Design division

Order 890