

FSUE PA "NOVOSIBIRSK INSTRUMENT-MAKING PLANT"



# OPTICAL SIGHTS PO5-10×40

SERVICE MANUAL



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# 1 DESCRIPTION AND OPERATION

## 1.1 Purpose

The Optical Sight PO5-10×40 is intended for observation and aimed fire, and designed for use with hunting and sporting weapons. The sight features reticle illumination, allowing for use under both daylight and twilight conditions.

The sight is designed to operate in an open air environment within a temperature range of -40 °C to +40 °C and relative humidity up to 93% at temperature 25 °C.

## 1.2 Specifications

Characteristic name	Nominal value
Magnification, x	from 5 to 10
Angular field of view	5° 2'30"
Resolution capability	14" 7"
Objective lens diameter, mm	40
Scale interval of upper handwheel	5cm/100m
Scale interval of side handwheel	5cm/100m
Overall dimensions, mm:	
length	426
width	83
height	179
Weight, kg:	
net to	1.35
brut to	1.7

### 1.3 Nomenclature list

Name	Qty	Note
Sight PO5-10×40	1	
Mount	1*	
<b>STA kit,</b> including		
Napkin	1	
Eyeshade	1	separated from the sight
Wrench	1	
<b>Packaging</b>		
Bag	1	
Box	1	
<b>Documentation</b>		
Service manual	1	

\*is supplied under the terms of the contract

## 2 OPERATIONS

### 2.1 Preparation for use

Remove the sight from its packaging, take off a protecting cap (1) and place the eyeshade (7), as shown in figure 1.

Place a mount designed for use with your weapon on seat (10) and secure it with the six screws M6.

Load the new batteries into the battery compartment (8) with their polarities properly aligned.

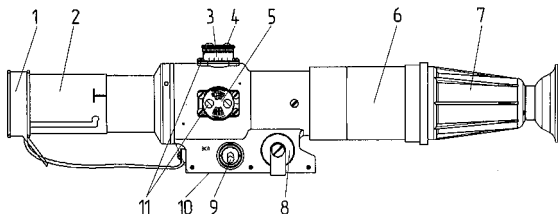
Thoroughly clean the mount place and place the sight on the weapon.

The sight must be securely fastened onto the weapon.

Aim the weapon by mechanical sight at a target at a distant of 100 m.

Place the upper handwheel of the sight on the point "1", and the side handwheel – on the point "0".

Check the coincidence of the peak of the reticle aiming mark that is in a sight's field of view with the aiming point.



- 1 – protecting cap; 2 – blind; 3 – upper handwheel;
- 4 – nut; 5 – side handwheel; 6 – eyepiece bezel;
- 7 – eyeshade; 8 – battery compartment;
- 9 – tumbler; 10 – seat; 11 – screw

Figure 1 – **Descriptive view of sight**

If the peak of the reticle aiming mark coincides with the aiming point, the sight is adjusted;

If these points do not coincide, it is necessary to untighten the screws (11) and perform 1-2 turns on the handwheels (3 & 5) with the wrench from the STA kit and turn the nut (4) in the direction indicated by arrow, in a way that upper and side scales do not revolve;

Check the coincidence of the index with number "1" on the upper handwheel (3) and number "0" – on the side handwheel (5);

Fully tighten the screws (11) and reassess the coincidence of the peak of the reticle aiming mark with the aiming point;

Repeat the adjustment if necessary.

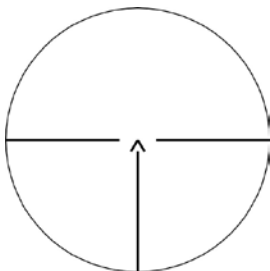


Figure 2 – **Field of view**

To shield the lens from direct sun rays, extend the blind (2) to the necessary length;

The elevation and windage corrections are determined by testing according to the type of the weapon;

Switch on the reticle illumination using tumbler (9) for shooting under twilight conditions with good target visibility.

The red, illuminated reticle should be visible in the sight's field of view.

## **2.2 Safety**

To avoid injury during operation, insure the mounting is securely attached to the weapon.

Protect the sight from physical damage during operation and transportation.

Dispose of used batteries appropriately.

## **3 MAINTENANCE AND STORAGE**

It is necessary to keep the sight clean and to protect it from dirt and dust during operation.

Outer optical surfaces must always be clean.

Wipe them routinely with the provided napkin or a clean, soft cotton fabric.

To remove oil spots from the outer optical surfaces use the napkin wet with alcohol.



Store the sight in the provided bag, apart from the weapon, in a dry, heated room with the temperature range of + 5° to +35 °C and relative humidity up to 70%. The eyeshade should be removed during storage.

Remove the batteries prior to storing the sight and keep them in the bag's pocket or any other place.

#### **4 ACCEPTANCE CERTIFICATE**

The Optical Sight PO5-10x40, serial № \_\_\_\_\_, is manufactured in accordance with mandatory state requirements for technical documentation and is fit for operation.

Date of issue \_\_\_\_\_

Signatures \_\_\_\_\_  
(stamp)

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