

PA” Novosibirsk Instrument Making Plant”

OPTICAL SIGHT  
PO2,5×18

Service manual

**The product is subject to continuous development and improvement, consequently that it may incorporate minor changes in detail from the information contained herein.**

## 1 APPLICATIONS

Optical sight PO2,5×18 ( here and after as sight) is intended for mounting on hunting and sporting rifled guns.

The sight ensures easy and precise aiming of gun in the various conditions of visibility and atmosphere at the ambient temperature from  $-40^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ .

The sight has a two drums provided with the scales which can input the required corrections in the vertical horizontal planes in registration and firing.

To increase a contract of image one should put an orange light filter on eyepiece of sight.

The sight is provided with illumination system of aiming reticule. For supplying one makes use of cell AA (1.2 . . . 1.5) V.

## 2 SPECIFICATION

Visible magnification, fold	2,5
Angle field of view, deg	11
Resolution limit, ....”	15
Diameter of the exit pupil, mm	7,2
Eye relief, mm	65
Diopter setting of eyepiece, D	from -0,5 to -1
Overall dimensions, mm	375×136×72
Weight, kg, not more	0,6

## 3 STANDARD EQUIPMENT

Optical sight	1
Cap	1
Wrench	1
Bag	1 Optional
Case	1
Service manual	1

## 4 MOUNTING, ZEROING AND ADJUSTMENT OF SIGHT ON THE WEAPON

The sight is mounted on the weapon with the help of special bracket.

To mount of the sight on weapon one should make the following:

- move a handle of sight bracket to the side to stop;
- put a “dove-tail” bracket on seating place of gun;
- move the sight forward to the stop;
- fasten the sight rotating a handle forward up to the full fixation.

One should make sure that sight is fasten strictly on the seating place of gun. If the sight rocks on the gun or a handle of sight's mounting is not locked when the sight is strictly fixed on gun it is necessary to adjust a mounting's clip on the following way:

- remove the sight from gun;
- press on slider located on the bottom part of the sight's bracket until the spring is pressed;
- if the sight rocks, one should rotate a nut for 1-2 threads moving clockwise. If the handle of mounting is not locked, one should rotate a nut moving counter clockwise;
- check a fixation of sight on gun and make an adjustment one more time, if it is necessary.

Zeroing of the optical sight on weapon is made after its ranging with mechanical aiming point (front sight and sighting) was made. For zeroing the weapon with the sight one should make the following:

- fasten the sight on the weapon;

- aim the weapon at the mechanical aiming point to the target located at the distance of 100 m from the edge of gun muzzle;
- looking through the sight one should determine a direction of aiming mark. If it is not coincided with aiming point of mechanical aiming point it is necessary to coincide an aiming mark with aiming point of mechanical aiming point.

## **5 MAINTENANCE**

The sight must be kept clean and protected from dust, shocks and friction of the optical surfaces.

Purified alcohol is to be used to clean optical surfaces. In non-working time the monocular is to be kept in the case.

In storage and operation one should protect any optical surfaces from scratches.

## **6 RULES OF SAFE OPERATION**

In operation of sight it is necessary to look after fixation of sight on weapon. If the sight rocks, one should adjust a clip of sight's mounting as it shows in point 4 of this service manual.

## **7 CLAIMS**

For repair and replacement apply to:  
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179/2, D.Kovalchuk, Novosibirsk, 630049  
Russia,  
tel: (383) 216-08-76;  
fax: (383) 226-15-94.

## **8 ACCEPTANCE CERTIFICATE**

Optical sight PO2,5×18, serial № \_\_\_\_\_,  
is in compliance with specifications and found fit  
for service.

Date of manufacture \_\_\_\_\_

Signature \_\_\_\_\_