

2.2 OPERATING PROCEDURES

2.2.1 Zeroing

Aimpoint's sights are delivered in a centered position. Normally this means that only small adjustments are necessary, providing that the base(s) are properly aligned.

CAUTION: Do not continue to adjust windage and elevation mechanisms if you encounter resistance.

The elevation adjustment screw is located on top of the sight, while the windage screw is located on the right side of the sight (fig.3).

- Open front and rear lens covers.
- Turn the rotary switch clockwise until the red dot has a sufficient intensity to contrast against the target.
- Remove the windage and elevation adjustment caps.

NOTE: Each click of the adjustment screw corresponds to a 10 mm movement of the point of impact at 80 meters, (3 mm at 25 meters, 13 mm at 100 meters and 25 mm at 200 meters or 1/4" at 50 yds, 1/2" at 100 yds and 1" at 200 yds).

- Insert adjustment tool (coin, screwdriver, knife) or cartridge casing in adjustment screw slot and turn as follows:
 - To move the point of impact to the right, turn windage adjustment screw counter clockwise (clockwise if screw located on left side).
 - To move the point of impact to the left, turn windage adjustment screw clockwise (counter clockwise if screw located on left side).
 - To move the point of impact up, turn elevation adjustment screw counter clockwise.
 - To move the point of impact down, turn elevation adjustment screw clockwise.
- Confirm zeroing by firing at least three shots at a zeroing target. Check impact points on zeroing target to confirm accuracy and repeat above procedure if required.
- After initial firing, ensure that the mount and sight are secure.
- Turn rotary switch to OFF position (counter clockwise).
- Close front and rear lens covers.

CHAPTER III

OPERATION UNDER EXTREME CONDITIONS

- Extreme heat (moist or dry). No special procedures required.
 - Extreme cold. Extreme cold might shorten battery life.
 - Salt air. No special procedures required.
 - Sea spray, water, mud and snow. Ensure that battery cap and two adjustment screw caps are tight before exposing the sight to sea spray, mud, snow or before immersing the sight in water. Hand tighten only. Keep lens covers closed when sight is not being used. Clean lenses with lens paper/cloth and wipe the sight dry as soon as possible after exposure to water, sea spray, mud or snow.
 - Dust storms and sand storms. Keep lens caps closed when sight is not being used.
 - High altitudes. No special procedures required.
- CAUTION:** The lenses shall never be cleaned with fingers but with lens paper/cloth. If no lens paper/cloth available:
- To clear away debris (sand, grass etc): blow away the dirt.
 - To clean lenses: mist up the lenses and dry them with a clean and soft piece of cloth.

CHAPTER IV

TROUBLE SHOOTING PROCEDURES

4.1 Red dot does not appear

Discharged battery
Battery installed incorrectly

Replace battery
Remove and reinstall battery with (+) toward cap
Clean contact surfaces and reinstall battery.
Notify dealer/armourer

Battery is not making good contact

Defective rotary switch

4.2 Impossible to zero

Adjustment screw is at its limit

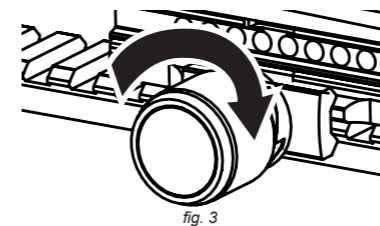
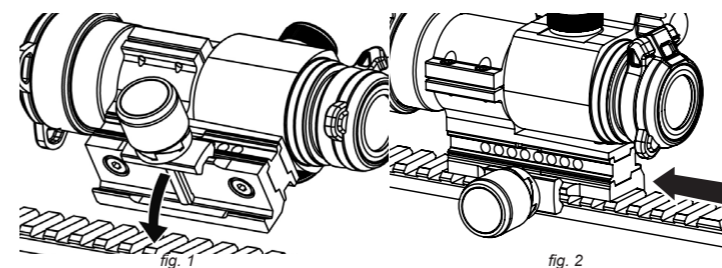
Check alignment of mount to barrel
Check mount stability

Impact point is moving

CHAPTER V

MAINTENANCE

- This reflex sight does not require any particular maintenance while used under normal conditions.
- Under severe weather conditions please refer to chapter III.
- Keep lens covers closed whenever the sight is not in use.
- Warehouse storage: Remove battery and allow lens surfaces to dry completely (if wet) before closing the lens covers.
- To clean lenses refer to caution in chapter III.



Aimpoint®

User's manual
for

Aimpoint Patrol Rifle Optic



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THE FUTURE IN SIGHT™

CHAPTER I

PRESENTATION

Aimpoint's Reflex Sights are rugged precision electronic optical red dot sights developed for civilian, military and law enforcement applications.

Aimpoint sights are designed for the "two eyes open" method of sighting, which greatly enhances situational awareness and target acquisition speed. Thanks to the parallax-free design, the dot follows the movement of the user's eye while remaining fixed on the target, eliminating any need for centering. Further, the sight allows for unlimited eye-relief. The Patrol Rifle Optic is compatible with 1st, 2nd and 3rd generation night vision devices.

The Patrol Rifle Optic sight is using Advanced Circuit Efficiency Technology (ACET), which combines Aimpoint's superior accuracy and ease of use with significantly lower power usage.

If you have further questions, please contact your local dealer.

SPECIFICATION

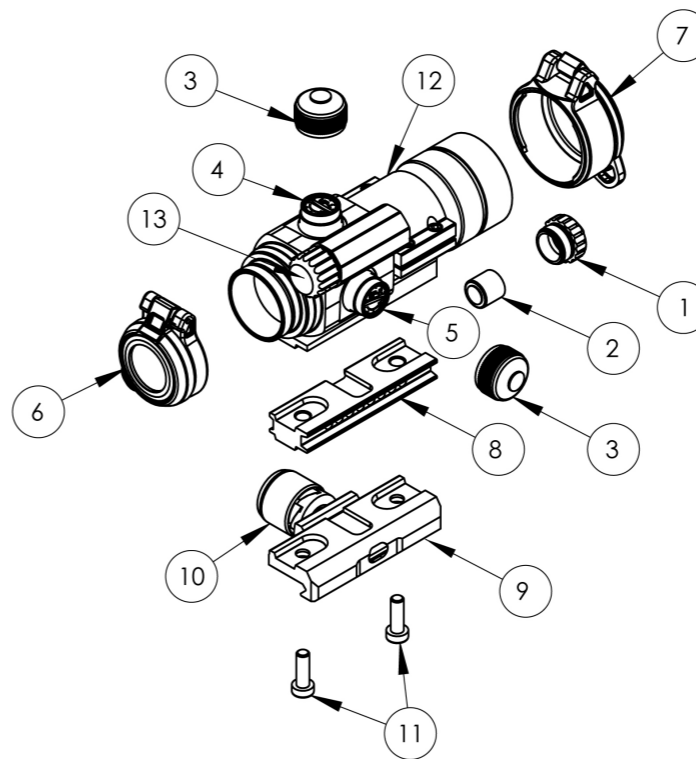
Material – housing:	Extruded, high strength aluminum, anodized
Material – lens covers:	Thermoplastic elastomer, black, non-glare
Surface finish:	Hard Anodized, Dark Graphite Grey, matte
Rubber cover:	Black or Dark Earth Brown
Optical magnification:	1X
Eye relief:	Unlimited, no centering required
Optical coating:	Anti Reflex coating, all surfaces Multi-layer coating for reflection Band Pass coating for NVD compatibility
Dot size:	2 MOA
Switch, dot brightness:	10 positions: 4 NVD, 6 daylight of which 1 Extra Bright
Battery:	One 3 Volt Lithium battery type 2L76 or DL1/3N
Battery life (hours):	50,000 h on setting 7 out of 10, (ACET Diode) Typically 500,000 h at NVD setting
Length (incl. lens covers):	130 mm (5.1")
Width:	55 mm (2.2")
Height:	55 mm (2.2")
Weight (sight only):	220 grams (7.8 oz)
Weight (with integrated mount):	330 grams (11.6 oz) including mount and spacer
Adjustment:	Range ± 2 m at 100 meters, in windage and elevation 1 click = 10 mm at 80 meters = 13 mm at 100 meters = 1/2" at 100 yards.
Mounting:	One wide ring, 30 mm diam, or Aimpoint QR Ring
Max temperature range:	-45 °C to +70 °C (-50 °F to +160 °F)
Water resistance:	Submersible to 45 m (150 ft) water depth

MOA: Minute Of Angle 1MOA = 30 mm at 100 meters = 1" at 100 yards
NVD: Night Vision Device

1.3 LOCATION AND DESCRIPTION OF MAJOR COMPONENTS AND FUNCTIONS

See fig. 1

1. Battery Lid
2. Battery (DL1/3N or similar)
3. Cover for adjustment screw
4. Adjustment Screw (windage)
5. Adjustment Screw (elevation)
6. Lens Cover, rear
7. Lens Cover, front
8. Spacer
9. QRP2 Mount
10. Torque knob
11. Mounting Screw
12. Ring Mount
13. Rotary Switch



CHAPTER II

OPERATION UNDER NORMAL CONDITIONS

Assembly and preparation for use

WARNING: Insure the weapon is unloaded and the safety selector is in the "safe" position before attempting to install, remove or perform maintenance on the sight.

Installing Battery

- a) Remove battery cap by turning it counter clockwise.
- b) Insert battery with positive (+) end toward cap.

Caution while replacing battery

(not necessary when the sight is unused)
Before installing battery cap, inspect that the O-ring is present and not damaged. Failure to do so could result in water leakage into the battery compartment.

- c) Install battery cap by turning clockwise until snug. Hand tighten only. Using tools could damage equipment.
- d) Verify that red dot is present by turning the rotary switch clockwise.

Mounting Procedure

- a) Select a groove on the rail that will give you a correct position of the sight. Ensure that the groove is undamaged and clear of dirt and sand.
- b) Loosen the Torque Knob (10) by turning it counterclockwise.
- c) Install the mount and sight on the rail (fig. 1). Make sure that the mount is correctly positioned and that the Recoil Stop is in the selected groove.
- d) Push the mount forward (fig. 2). The Recoil Stop shall be in contact with the front edge of the groove.
- e) Tighten the Torque Knob (fig. 3) clockwise until it snaps twice. This ensures that the Mount is secured.

NOTE: Grasp the checkered portion of the knob only to prevent pinching of fingers when the shaft opens and snaps shut.

- f) Test shoot the weapon with the sight mounted. Retighten the Torque Knob (10) after a few rounds, if necessary.
- g) Perform complete zeroing according to 2.2.1.