

Aimpoint®

Operator's and Maintenance Manual
for

Aimpoint Carbine Optic



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THE FUTURE IN SIGHT™

CHAPTER I

1.1 PRESENTATION

The Aimpoint Carbine Optic is a high quality electronic red dot sight designed specifically for use on “flat top” AR-15 and M4 Carbine style rifles equipped with a Picatinny rail system. This rugged and accurate optical sight is the perfect match for nearly all carbine applications.

Aimpoint sights employ the “both eyes open” method of sighting, which greatly enhances situational awareness and target acquisition speed. Thanks to a parallax-free lens design, the dot follows the movement of the user’s eye while remaining fixed on the target. This eliminates any need for centering the dot inside the sight tube. This also allows for unlimited eye-relief, so performance is not affected by the location of the sight on the mounting rail.

If you have further questions, please contact your gunsmith or local Aimpoint Dealer.

1.2 SPECIFICATION

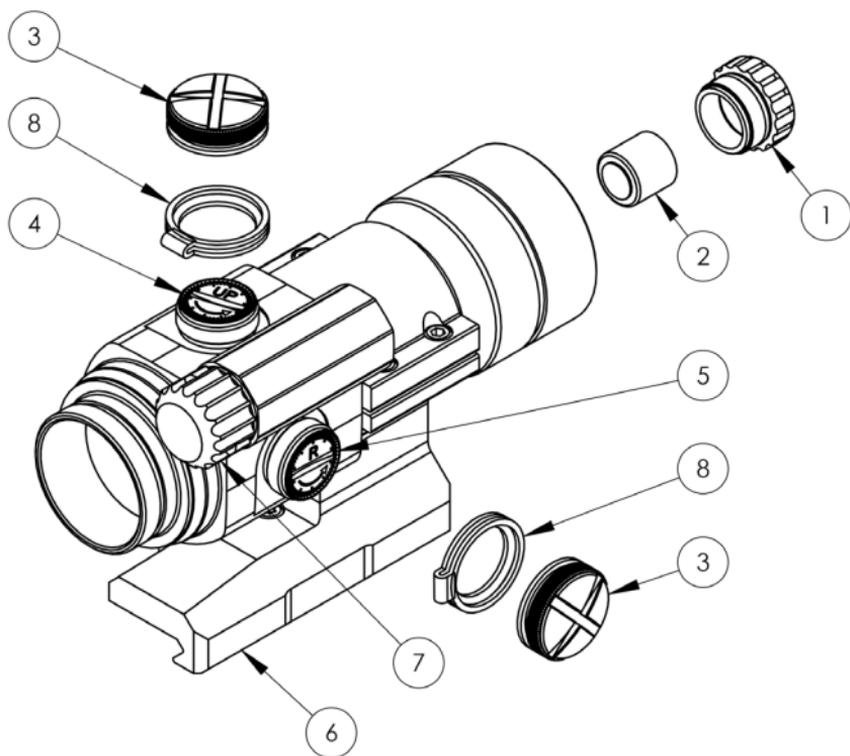
Material – housing:	Extruded, high strength aluminum, anodized
Surface finish:	Anodized, Dark Graphite Grey, matte
Optical magnification:	1X
Eye relief:	Unlimited, no centering required
Height of optical axis:	39 mm (1.5") over top surface of Picatinny Rail
Optical coating:	Anti Reflex coating, all surfaces Multi-layer coating for reflection
Dot size:	2 MOA*
Switch, dot brightness:	10 Settings: 1 Off, 9 daylight of which 1 Extra Bright
Battery:	One 3 Volt Lithium battery type 2L76 or DL1/3N
Battery life:	1 year on setting 7 out of 10, at room temperature
Length:	120 mm (4.7")
Width:	55 mm (2.2")
Height (with mount):	76 mm (3.0")
Weight:	190 grams (6.7 oz)
Weight (with integrated mount):	300 grams (10.6 oz)
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.
Max temperature range:	-30 °C to +60 °C (-20 °F to +140 °F)
Water resistance:	Submersible to 5 m (15 ft) water depth

MOA: Minute Of Angle 1MOA = 30 mm at 100 meters = 1" at 100 yards

1.3 LOCATION AND DESCRIPTION OF MAJOR COMPONENT AND FUNCTIONS

- | | |
|---------------------------------|--------------------------------------|
| 1. Battery Cap | 5. Adjustment Screw (windage) |
| 2. Battery (DL1/3N or similar) | 6. Mount |
| 3. Cover for adjustment screw | 7. Rotary Switch |
| 4. Adjustment Screw (elevation) | 8. Strap (for Cap Adjustment)(2 pcs) |

Fig.1



CHAPTER II

OPERATION UNDER NORMAL CONDITIONS

2.1 ASSEMBLY AND PREPARATION FOR USE

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

2.1.1 INSTALLING BATTERY

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

CAUTION: Install the battery in the battery compartment carefully. Open the Battery Cap (5). Inspect that the current O-ring is not damaged. Failure to do so could result in water leakage into the battery compartment.

- c. Install the battery cap by turning clockwise until snug. Hand tighten only - use of tools could damage your sight.
- d. Verify that red dot is present by turning the rotary switch clockwise.

2.1.2 MOUNTING PROCEDURE

- a. Select a groove on the rail that will give you the correct position of the sight. For maximum speed and accuracy, the sight's mount should be positioned at the front of the carbine's receiver, without extending over the barrel. Ensure that this groove is undamaged and clear of dirt and sand prior to mounting.
- b. Loosen the nut (Fig. 2) by turning it counterclockwise with an appropriately sized wrench. Do not use pliers.
- c. Install the mount and sight on the rail (Fig. 3). Make sure that the mount is correctly positioned and that the recoil stop is in the selected groove.
- d. Push the mount forward (Fig. 4). The recoil stop shall be in contact with the front edge of the groove.
- e. Hand tighten the nut and then tighten with an appropriate tool an additional 1/8-1/4 turn. This ensures that the mount is secured.
- f. Test shoot the weapon with the sight mounted. Retighten the nut after test shooting. Check for correct tightness prior to each use.
- g. Perform complete zeroing according to 2.2.1.

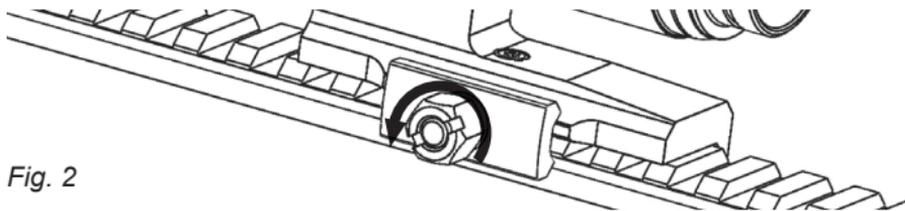


Fig. 2

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 and mounting rail 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 (pos. 4 and 5).

- a. Turn the rotary switch (7) clockwise until the red dot has a sufficient intensity to contrast against the target.
- b. Remove cap (3).

NOTE: Each click of the adjustment screw corresponds to change to the point of impact of: 1/4" at 50 yards, 1/2" at 100 yards, and 1" at 200 yards.

- c. Insert a coin, screwdriver, or edge of an empty cartridge casing into the adjustment screw slot and turn as follows:
 - To move the point of impact to the right, turn windage adjustment screw counterclockwise.
 - To move the point of impact to the left, turn windage adjustment screw clockwise.
 - To move the point of impact up, turn elevation adjustment screw counterclockwise.
 - To move the point of impact down, turn elevation adjustment screw clockwise.
- d. 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.
- e. After initial firing, ensure that the mount and sight are secure.
- f. Turn the rotary switch to the OFF position (counterclockwise) prior to storage.

CHAPTER III

OPERATION UNDER EXTREME CONDITIONS

- a. Extreme heat (moist or dry). No special procedures required.
- b. Extreme cold. Extreme cold might shorten battery life.
- c. Salt air. No special procedures required.
- d. 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. Clean lenses with lens paper/cloth and wipe the sight dry as soon as possible after exposure to water, sea spray, mud or snow.
- e. Dust storms and sand storms. Cover lenses when sight is not in use.
- f. High altitudes. No special procedures required.

NOTE: Accessory flip caps are available online, or from your local Aimpoint Dealer.

CAUTION: Lens surfaces should never be cleaned with fingers. Use of lens paper, or a lens cloth will prevent damage during cleaning. 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:	Replace battery
Battery installed incorrectly:	Remove and reinstall battery with (+) toward cap
Battery is not making good contact:	Clean contact surfaces and reinstall battery.
Defective rotary switch:	Notify dealer/armourer

4.2 IMPOSSIBLE TO ZERO

Adjustment screw is at its limit:	Check alignment of mount to rail. Check rail surface for damage.
Impact point is moving:	Check tightness of mounting nut.

CHAPTER V

MAINTENANCE

- a. This sight does not require any particular maintenance when used under normal conditions.
- b. Following use under severe conditions, please refer to CHAPTER III.
- c. Long term storage: Clean sight housing and lens surfaces, and remove battery prior to long term storage. Use of lens covers will help to protect lens surfaces during storage.
- d. To clean lenses refer to **CAUTION** in CHAPTER III.

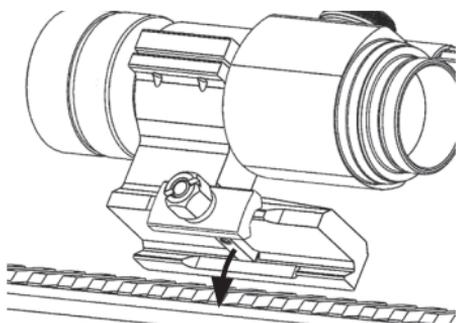


Fig. 3

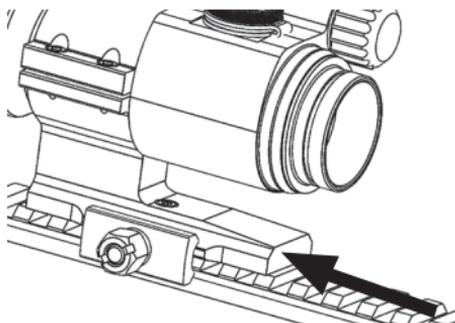


Fig. 4

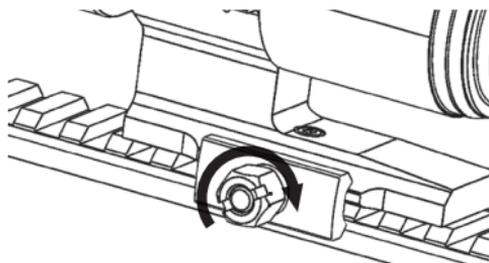


Fig. 5

