



SPORT & RECREATIONAL OPTICS

Tactical Weapon™

TW4x20 SCOPE

INSTRUCTION MANUAL



Engineered for rapid target acquisition, instinctive and accurate shooting. Fixed power Tactical Weapon™ rifle scope with non-illuminated crosshairs.

The Tactical Weapon Series Scopes are engineered specifically for use with tactical style fire arms. The TW4X20 Tactical Weapon™ scope is equipped with a quick detachable mount that fits all AR style carry handle upper receivers. The TW4X20 Tactical Weapon™ scope features a ballistic compensating elevation turret and a coin style windage adjustment turret.

FEATURES:

Fully multi-coated optics for increased light transmission, 4X magnification, 20mm objective lens, 50 yard parallax setting; F.O.V. @ 100 yds. is 23.6; 3.75" eye relief, 30/30 reticle, Approx. 6" in length and., 12 oz (390 grams).

BALLISTIC ADJUSTMENT:

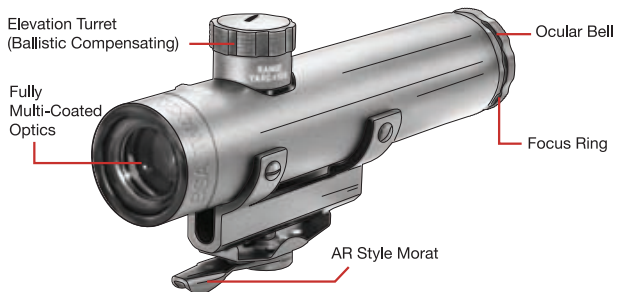
The ballistic compensation is preset for .223 cal / 5.56mm ammunition. Once scope is sighted rotated the ballistic compensating elevation turret to the desired yardage (i.e.1 TO 2 = over 100 yards to 200 yards; 1 = 100 yards; 3 = 300 yards; 4 = 400 yards; 5 = 500 yards).

Each TW4X20 Model Scope Includes:

Micro Fiber Lens Cloth and an AR detachable mounting system.

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TW 4x20 SCOPE

! CAUTION: DIRECT VIEWING OF THE SUN CAN CAUSE PERMANENT EYE DAMAGE. DO NOT ATTEMPT TO VIEW THE SUN WITH EITHER THIS PRODUCT OR THE NAKED EYE.

1.) FOCUSING YOUR SCOPE

The Tactical Weapon™ 4X20 has a coin style windage adjustment knob and a standard bullet compensation tactical elevation knob. The standard eye relief on the TW4x20 is 3.75"; it is designed to attach to an AR style carry handle.

Hold the scope and look through the eye piece at a flat, featureless, well lit area. The reticle should appear sharp and well defined. To make adjustments rotate the ocular bell focus ring in either direction. Look through the scope again. If the focus of the reticle has improved but is not perfect, continue to rotate in the same direct. If the condition has worsened, you will need to rotate the bell in the opposite direction. Lock the eyepiece firmly by using the focus locking ring.

! **CAUTION:** BE SURE THAT THE FIREARM IS NOT LOADED.
PRACTICE SAFE FIREARM HANDLING AT ALL TIMES.

2.) MOUNTING

The TW4X20 Tactical Weapon™ scopes quick detachable mount fits all AR style carry handle upper receivers.

- Remove the threaded mounting clip.
- Position the extended threaded screw through the hole on top of the AR handle.
- The threaded clip is then reinstalled beneath the base of the handle.
- Turn clip as far clockwise to tighten. Check to make sure the reticle is aligned both vertically and horizontally with the bore axes of the firearm.

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3.) PRE-ZEROING

Locate an appropriate location to fire your rifle and set up a target at a distance of 100 yards* from your shooting location. You should use a comfortable gun rest to eliminate as much human error as possible. Make certain the rifle is empty with no cartridge in the chamber and the breech open. The TW4X20 has a 50 yard parallax and standard focus knob.

Manual Adjustment: To adjust windage, remove the turret cover and make adjustments with coin or fitted flat head screwdriver. Rotate the elevation knob to 1 (X100 Yards). The elevation knob has a coin style cover, remove and make adjustment. *Once zeroed, you can adjust for ballistic compensation from 100 to 500 yards.



300 yards

200 yards

100 yards

75 yards

50 yards

Using a Boresighter:

Follow the instructions that came with your boresighter and install the boresighter in the muzzle of your rifle lining it up with the scope as close as possible. Rotate the elevation knob to 1 (X100 Yards). Looking through the scope as though you were going to shoot you should see two sets of cross hairs. One set is a plain cross hair (this is the one in the scope itself) and another set which is graduated or on a grid (this is the one in the boresighter). These cross hairs should line up with each other vertically, horizontally and in complete alignment.

If the vertical and horizontal cross hairs are not parallel with each other, adjust the boresighter in the direction it needs to turn in order to achieve this. Make sure the cross hairs to cross or meet at precisely the same location. Proceed to adjust your scope right, left, up, or down until the cross hairs match. Remove the boresighter from the muzzle.



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4.) ZEROING

The next step is to test ammunition. NO two ammunitions will behave in the same manner when fired from the same rifle. This may be one of the most important steps in sighting in any firearm and is the one that is most frequently omitted. *DO NOT bypass this step.*

- Make sure the elevation knob is set to 1 (X100 Yards).
- Holding the crosshairs steady on the target, squeeze off a round.
- Repeat this two more times to get a 3-shot group.
- While looking through the scope, set the cross on the original target.
- Rotate the windage coin adjustment until the cross hairs are level with the 3-shot grouping.
- Rotate the elevation coin adjustment until the cross hairs are in the center of the 3-shot grouping. Once you have adjusted the windage and the elevation, you are now ready for another 3-shot group.

Repeat this process until you are satisfied with the results.

NOTE: It is important to allow the barrel to cool down in between the 3-shot groups as heating of the barrel can cause bullet flight to vary. It is also recommended to swab the bore between shots with a dry patch to reduce buildup. **DO NOT** use any cleaning fluid or oil on the swab as this can affect bullet flight. Replace the windage and elevation caps.

5.) MAINTENANCE

DO NOT ATTEMPT TO DISSASSEMBLE OR CLEAN THE SCOPE INTERNALLY.

IF THE SCOPE REQUIRES REPAIRS OR ADJUSTMENT, SEE WARRANTY CARD FOR INSTRUCTIONS. Start by brushing away dust and dirt particles from the lenses of the scope. Using the included lens cloth designed to clean optical surfaces brush dust or dirt particles away from the center of the lens towards the outside edges. To remove minor smudges or fingerprints, start in the middle of the lens and using a circular motion clean towards the outside edges of the lens.

If more aggressive cleaning is needed, put a few drops of liquid lens cleaner on the cloth. Store the rifle scope in a moisture-free environment.

NOTE: Not all cloth material (like a handkerchief) will remove smudges or fingerprints. Round fibers found in many cloth materials will tend to spread smudges and fingerprints. Use cleaning tools specifically designed for rifle scope cleaning.



**Tactical Weapon™
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Please visit us at bsaoptics.com to view our full line of products!

6.) TROUBLE SHOOTING TIPS:

Inaccuracy Issues:

- 1). First check your mount. Using your bare hands only, softly twist the scope in the rings, check for any movement. If there is any movement, re-tighten the mounts. *Non-permanent thread lock tight is recommended.*
- 2). Use a bench rest or sandbag to support the forearm and butt stock when making windage and elevation adjustments. This will help eliminate movement.
- 3). Always follow through with every shot.
- 4). Always use the ammunition of the same bullet type and weight.
- 5). Check that your rifle is properly bedded in the stock. A loose stock can create changes to the point of impact.
- 6). Check that your barrel and chamber are clean. Damaged rifling or excessive grease can cause inaccuracy.
- 7). Always make adjustments in small increments to avoid moving the erector tube.

For questions on our products and for complete instructions on warranty and repair, contact BSA Optics Customer Service at (954) 581-2144 or visit bsaoptics.com

FOR RETURNING PRODUCTS

Return products following the warranty guidelines.

A brief description is included below.

- 1). Remove any accessories and rings.
- 2). Include a note with a brief description of the problem, address, telephone number, and email address.
- 3). A \$10 check for return shipping and processing fees and proof of purchase.
- 4). We recommend using a shipping method with a tracking number (Fedex, UPS ect.).

BSA optics cannot be held liable for lost or damaged items.

*PLEASE NOTE: if your product is not registered you must have proof of original purchase, or you will be subject to repair fees (see warranty).

SHIP PRODUCTS TO:

BSA Optics Inc.
1475 S. Sam Houston Blvd.
Houston, MO 65483



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RD020509