Trijicon®

Brilliant Aiming Solutions™





Trijicon AccuPoint®

Quick Reference Guide

General Information

RADIOACTIVE MATERIALS SAFETY PRECAUTIONS

This Trijicon® product contains radioactive material for low light/no light illumination. The radiation source is hydrogen-3 (3H), commonly known as tritium. Tritium is an odorless, tasteless, colorless gas that reacts to the human body in the same manner as natural hydrogen. The human body does not easily retain hydrogen or tritium as a gas. However, the oxide, HTO, which is formed by the burning of tritium, is 10,000 times more hazardous. For this reason, great care should be taken to avoid flame in the presence of a Trijicon optic with a tritium lamp which is broken or is suspected of leaking. If the tritium lamp in the Trijicon product is crushed or severely damaged to the extent that the tritium lamp inside might be damaged, follow safety procedures on next page. This Trijicon product is regulated under an EXEMPT LICENSE from the United States Nuclear Regulatory Commission (NRC) held by Trijicon, Inc. As per the license agreement, disassembly of the scope is prohibited except by Trijicon, Inc.

TRITIUM FAILURE INSPECTION

Refer to the PREPARATION FOR USE section for the procedure to follow to determine if the tritium lamp in this Trijicon® product is working correctly.

General Information

HANDLING A DAMAGED PRODUCT

DO NOT handle a damaged unit if you have open skin cuts or abrasions (use gloves). If the tritium lamp in a Trijicon® product is broken or suspected of being broken, work in a well ventilated area and avoid inhaling air near the unit. Place the unit in a sealed plastic bag and contact Trijicon's Customer Service Department (see CONTACT information on page 20). Immediately following contact with the unit, wash your hands with soap and water.

WARNING

DO NOT eat, drink, smoke, or apply cosmetics in the presence of a damaged Trijicon® product.

WARNING

Before installing the optic on a firearm, ensure the firearm is UNLOADED.

CAUTION

When mounting this Trijicon® product onto the rail of a firearm, do not tighten the mount screws beyond the recommended torque setting provided by the mount manufacturer. Damage may occur to the optic and/or zero retention may be negatively affected.

CAUTION

DO NOT allow harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents to come in contact with this Trijicon® product. They will affect the appearance, but not the performance.

Science of Brilliant®



ALASKA-TO-AFRICA TEMPERATURE TESTED

To ensure each family of riflescopes is ready for whatever our users put them through, we perform "Alaska to Africa" temperature shock tests with temps from -20°F to 140°F.



IMMERSION TESTED

Each model is immersion tested, and every riflescope is dry-nitrogen filled to eliminate internal fogging.



SOLID ZERO TESTED

Every model is subjected to 5,000 consecutive rounds, confirming no reticle shift has occurred.



SHOCK & VIBRATION TESTED

All models are tested to withstand recoil and vibrational stresses without malfunction, so it can take a beating before, during and after use.



DROP TESTED

We don't believe every drop should be followed by a warranty claim, so we drop test each riflescope design to check durability.

Introduction

The Trijicon AccuPoint® features a unique combination of advanced fiber optics and self-luminous tritium. Using dual-illumination technology the fiber optic light collector illuminates the aiming point, automatically balancing the brightness with the shooting conditions. The tritium illuminates the aiming point, even in total darkness. When desired, a manual adjustment will dim the aiming point if desired, allowing users to select reticle brightness to suit personal preference. This provides the optimum aiming point illumination and ideal reticle/target contrast. With the advanced fiber optic/tritium aiming-point illumination, the Trijicon AccuPoint® speeds target acquisition. The result: lightning-fast precision aiming in any light for maximum shooting success.

Each model features:

- Fully multi-coated broadband anti-reflective lenses with enhanced scratch resistance
- Fiber optic brightness adjuster
- Precise, crisp adjusters
- Second focal plane reticle
- Highly durable, lightweight aircraft-grade aluminum housing
- Waterproof to 10 ft.
- Dry-nitrogen filled to prevent internal fogging

Preparation for Use

TRITIUM INSPECTION

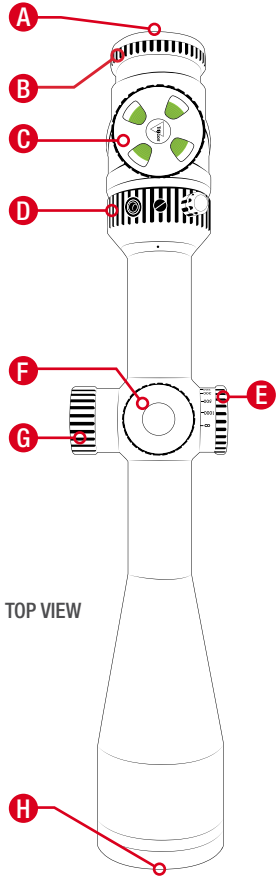
It is recommended that the tritium lamps be checked for proper functioning every six months, or immediately following any incident which might lead to lamp failure (such as severe impact to the AccuPoint®). To determine that the tritium lamp is functioning in the AccuPoint, enter a dark room and look though the scope. The reticle should be illuminated as similar to what is shown below.



The illumination provided by the tritium lamp is very faint and will be hard to see without a dark adapted eye. Remain in the dark room for a moment to adapt your eyes to the dark. The reticle should illuminate in low light to complete darkness.
If illumination is not detected, try waiting a moment more to ensure your eyes have completely adapted to the dark and check again. If the reticle does not appear to illuminate in the dark, please contact Trijicon®. See WARNINGS & CAUTIONS on the GENERAL INFORMATION pages.

Controls and Indicators

- **A** Eyepiece Lens
- **B** Diopter Adjuster
- **C** Fiber Optic Brightness Adjuster
- **D** Magnification Dial
- **E** Parallax Adjuster (if equipped)
- **F** Elevation Adjuster
- **G** Windage Adjuster
- **H** Objective Lens



TOP VIEW

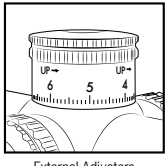
Adjustment Procedures

ZEROING THE RIFLESCOPE

There are two different types of adjusters in the AccuPoint® family. Capped Adjusters are located under the removable turret cap. External Adjusters allow you to adjust point of impact by rotating the exposed elevation turret and in some models also the external windage turret. The riflescope is zeroed using either adjusters located under the adjuster caps, or by rotating the external adjuster if equipped. There are two adjusters, one for **Windage** (G page 7) and one for **Elevation** (top, F page 7). The arrows on the adjusters indicate direction to turn the adjusters in order to change bullet impact.



Capped Adjusters



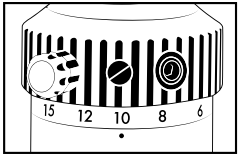
External Adjusters

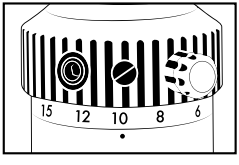
For example, using the ¼ MOA per click adjuster, if the point of impact is two MOA to the left of the aiming point, the windage adjuster should be moved eight clicks in the direction marked R (Right). This will move the bullet impact two MOA to the right and onto the point of aim. Similarly, if the bullet impact is striking low on the target, move the elevation adjuster in the Up direction. Once the optic's elevation and windage is zeroed, reset the adjuster to zero.

Adjustment Procedures

MAGNIFICATION DIAL

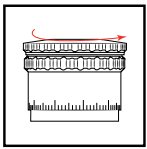
Trijicon AccuPoint® riflescopes are available in various ranges of magnification. Magnification is selected by rotating the **Magnification Dial** (C), aligning the white indicator marking with the number on the riflescope housing. Some models are equipped with a 2-position repositionable magnification lever. This lever is threaded in and can be moved to the other position by removing the filler screw with the supplied 3mm Allen key, tighten lever into place, and reinstall filler screw in vacant screw hole.



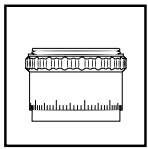


EXTERNAL ADJUSTERS / RETURN-TO-ZERO

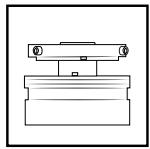
Once the rifle's elevation is zeroed, remove the adjuster turret by turning the threaded top cap counter-clockwise (Step 1). Remove the top cap (Step 2), remove the adjuster body (turret) (Step 3), then loosen the three hex screws around the Return-to-Zero disk with the provided 1.5mm hex wrench. After loosening the hex screws, let the Return-to-Zero disc drop to the adjuster housing (Step 4) and rotate clockwise (Step 5) until the Return-to-Zero disk stops.



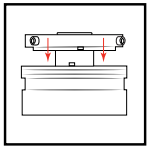
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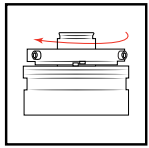
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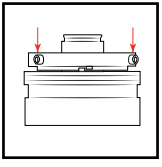
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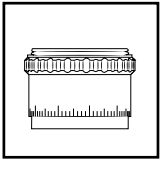
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Adjustment Procedures

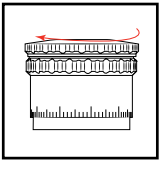
Once the Return-to-Zero is set to the desired position, tighten the three hex screws to 5 in. oz. or finger tight using the 1.5mm hex wrench (Step 6). To complete the Return-to-Zero adjustment, reinstall the adjuster body at the zero position (Step 7), and reinstall the top cap (Step 8).



6



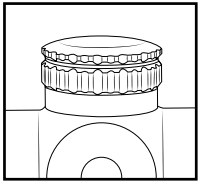
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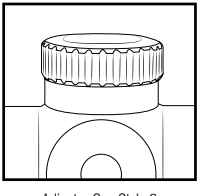
8

CAPPED ADJUSTERS

With the adjuster cap removed, pull the adjustment dial out and it will spin freely, push down at the zero position. For adjustment dials with threaded top cap, remove top cap by holding main body and rotating top cap counter-clockwise. Once top cap removed, lift adjuster body off, set to zero and retighten top cap.



Adjuster Cap Style 1



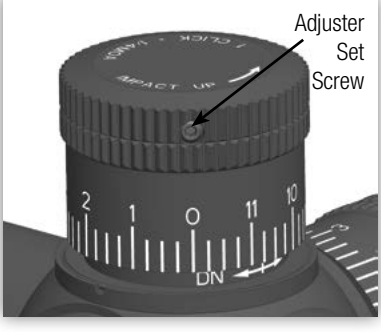
Adjuster Cap Style 2

Adjustment Procedures

UNCAPPED ADJUSTERS (TR23 SERIES)

For external turret adjusters (5-20x50 models with Fiber Strip), a 1.5 mm hex key is required to set the adjuster to zero. There are three set screws in each adjuster. Unscrew each of the **Adjuster Set Screws** one full turn. Then slowly rotate the external turret until the zero number reaches the indicator line.

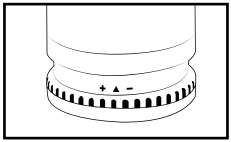
If the adjuster clicks before reaching your zero mark, stop and unscrew the set screws another half to full turn, then continue rotating to zero. Once complete, tighten all three screws.



5-20x50 Models with Fiber Strip (TR23 Series)

DIOPTER ADJUSTER (EASY FOCUS EYEPIECE)

The **Diopter Adjuster** (B) allows the user to quickly match the user's prescription. Adjustments are made by simply turning the Diopter Adjuster in the direction which brings the reticle into focus. An indicator (+ / -) is a useful reference point for returning the focus to your customized position.

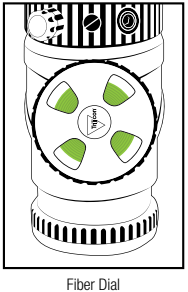


Adjustment Procedures

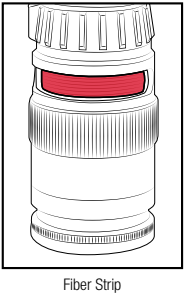
FIBER OPTIC BRIGHTNESS ADJUSTER

The aiming point of the AccuPoint® is always illuminated. During lighted conditions, the fiber optic system provides illumination to the reticle. During low to no light conditions, tritium illuminates the reticle.

The Trijicon AccuPoint® has automatic brightness control that provides ideal reticle illumination for all shooting conditions. The AccuPoint also has a **Fiber Optic Brightness Adjuster** (C) which allows the user to set reticle brightness to their specific preference. This manual adjustment is made by rotating either the fiber optic housing cover or the illumination dial to shade the fluorescent fiber optic material. The fiber transmits maximum brightness to the reticle in its full open position.



Fiber Dial



Fiber Strip

SIDE PARALLAX ADJUSTMENT (IF EQUIPPED)

Parallax is the perceptible movement of the reticle on the target as the shooter moves their head up and down, or side to side. Parallax adjustment can improve accuracy. Adjustment is recommended at all distances to improve accuracy.

Checking parallax is done by slightly lifting your head off of the stock and moving your head left and right and up and down while looking though the scope. Does the reticle appear to move while it is placed on the target? If so, rotate the side Parallax Adjustment knob until parallax or reticle movement is minimized. There are yardage indicators on the Parallax Adjustment knob that serve as approximations. For example, if target is 300 yards away, rotate Parallax Adjustment to the 300 mark and make fine tuning adjustments by viewing through scope.

You may notice your Field of View (FOV) is more focused when making parallax adjustment. The key point is that instead of focusing on how sharp your image appears, focus on making sure the reticle is not moving. If your reticle parallax is correct your target should be sharp and in focus.

Characteristics

	1-4x24 TR24 Series	1-6x24 TR25 Series
Magnification Range	1 - 4x	1 - 6x
Objective Lens Size	24mm	24mm
Eye Relief	2.0 - 3.5 in. 52 - 88mm	2.8 - 5.0 in. 71 - 127mm
Exit Pupil	.69 - .2 in. 17.5 - 5.1mm	.47 - .16 in 12 - 4.1mm
Field of View (Degrees)	18.0° - 4.6°	21.4° - 3.6°
Field of View (@ 100 yd.) (@ 100m)	97.5 - 24.2 ft. 32.5 - 8.1m	117.5 - 18.8 ft. 39.2 - 6.3m
Adjustments	1/4 MOA per click	1/4 MOA per click 0.1 MIL per click
Total Adjustment Range Windage	90 MOA	110 MOA 32.6 MIL
Total Adjustment Range Elevation	90 MOA	110 MOA 32.6 MIL
Return-to-Zero	No	No
Dimensions (L x W x H)	10.3 x 2.0 x 2.0 in.	11.0 x 2.0 x 2.0 in.
Weight	14.4 oz.	19.2 oz.
Tube Diameter	30mm	30mm



	1-8x24 TR35 Series	2.5-10x56 TR22 Series
Magnification Range	1 - 8x	2.5 - 10x
Objective Lens Size	24mm	56mm
Eye Relief	3.3 - 4.1 in. 83 - 104mm	2.8 - 4.6 in. 71 - 117mm
Exit Pupil	0.36 - 0.12 in. 9.2 - 3.0mm	.64 - .22 in. 16.3 - 5.6mm
Field of View (Degrees)	20.0° - 2.5°	7.2° - 1.9°
Field of View (@ 100 yd.) (@ 100m)	105.8 - 13.2 ft. 35.3 - 4.4m	37.6 - 10.1 ft. 12.5 - 3.4m
Adjustments	1/4 MOA per click	1/4 MOA per click
Total Adjustment Range Windage	100 MOA	60 MOA
Total Adjustment Range Elevation	100 MOA	60 MOA
Return-to-Zero	No	No
Dimensions (L x W x H)	11.0 x 2.3 x 2.3 in.	13.8 x 2.6 x 2.6 in.
Weight	19.4 oz.	20.7 oz.
Tube Diameter	30mm	30mm



Characteristics

	2.5-12.5x42 TR26 Series	3-9x40 TR20 Series
Magnification Range	2.5 - 12.5x	3 - 9x
Objective Lens Size	42mm	40mm
Eye Relief	2.8 - 4.3 in. 71 - 109mm	2.2 - 3.8 in. 56 - 97mm
Exit Pupil	.42 - .13 in. 10.6 - 3.3mm	.52 - .17 in. 13.3 - 4.4mm
Field of View (Degrees)	7.8° - 1.6°	6.5° - 2.2°
Field of View (@ 100 yd.) (@ 100m)	41.3 - 8.3 ft. 13.8 - 2.8m	33.8 - 11.3 ft. 11.3 - 3.8m
Adjustments	1/4 MOA per click 0.1 MIL per click	1/4 MOA per click
Total Adjustment Range Windage	90 MOA 26.7 MIL	50 MOA
Total Adjustment Range Elevation	90 MOA 26.7 MIL	50 MOA
Return-to-Zero	No	No
Dimensions (L x W x H)	13.8 x 2.4 x 2.3 in	12.4 x 1.9 x 1.9 in.
Weight	22.4 oz.	13.4 oz.
Tube Diameter	30mm	1 in.



	3-18x50 TR34 Series	4-16x50 TR31 Series
Magnification Range	3 - 18x	4 - 16x
Objective Lens Size	50mm	50mm
Eye Relief	3.4 - 4.0 in. 87 - 101mm	3.1 - 3.8 in. 78 - 96mm
Exit Pupil	.45 - .11 in. 11.4 - 2.8mm	.33 - .12 in. 8.5 - 3.1mm
Field of View (Degrees)	6.62° - 1.11°	5.43° - 1.36°
Field of View (@ 100 yd.) (@ 100m)	34.7 - 5.8 ft. 11.6 - 1.9m	28.5 - 7.1 ft. 9.5 - 2.4m
Adjustments	1/4 MOA per click	1/4 MOA per click 0.1 MRAD per click
Total Adjustment Range Windage	60 MOA	70 MOA 20.4 MRAD
Total Adjustment Range Elevation	60 MOA	100 (E) / 70 (C) MOA 29.1 MRAD
Return-to-Zero	Yes	Yes
Dimensions (L x W x H)	14.81 x 2.87 x 2.76 in.	14.4 x 2.9 x 2.4 in.
Weight	27.1 oz.	25.9 - 26.8 oz.
Tube Diameter	30mm	30mm

(E) - Exposed Adjusters (C) - Capped

Characteristics

	4-24x50 TR32 Series
Magnification Range	4 - 24x
Objective Lens Size	50mm
Eye Relief	3.1 - 3.8 in. 78 - 96mm
Exit Pupil	.33 - .08 in. 8.5 - 2.1mm
Field of View (Degrees)	5.43° - 0.91°
Field of View (@ 100 yd.) (@ 100m)	28.5 - 4.7 ft. 9.5 - 1.6m
Adjustments	1/4 MOA per click
Total Adjustment Range Windage	70 MOA
Total Adjustment Range Elevation	100 MOA
Return-to-Zero	Yes
Dimensions (L x W x H)	14.4 x 2.9 x 2.4 in.
Weight	26.8 oz.
Tube Diameter	30mm



	5-20x50	
	TR23 Series	TR33 Series
Magnification Range	5 - 20x	
Objective Lens Size	50mm	
Eye Relief	3.8 - 4.1 in. 96 - 103mm	3.1 - 3.8 in. 78 - 96mm
Exit Pupil	0.39 - 0.10 in. 10 - 2.5mm	.3 - .10 in. 7.8 - 2.5mm
Field of View (Degrees)	3.7° - 1.0°	4.35° - 1.09°
Field of View (@ 100 yd.) (@ 100m)	19.4 - 5.2 ft. 6.5 - 1.8m	22.8 - 5.7 ft. 7.6 - 1.9m
Adjustments	1/4 MOA per click	1/4 MOA per click 0.1 MRAD per click
Total Adjustment Range Windage	40 MOA	70 MOA 20.4 MRAD
Total Adjustment Range Elevation	40 MOA	100 MOA 29.1 MRAD
Return-to-Zero	No	Yes
Dimensions (L x W x H)	13.6 x 3.2 x 3.2 in.	14.4 x 2.9 x 2.4 in.
Weight	26.9 oz.	26.8 - 26.9 oz.
Tube Diameter	30mm	



Maintenance

This Trijicon® product requires very little maintenance. If the lenses become dirty, wash using fresh water and a soft clean cloth. Remove all foreign matter from the lens surface fully before wiping them with a soft cloth. The outside lenses may fog over in cold weather. Remove fog by using a dry, clean soft cloth. Anti-fog solutions can be applied if desired.

Troubleshooting

For additional information, product downloads, or answers to Frequently Asked Questions (FAQ) visit **Trijicon.com**. Please contact our Customer Service Department for other product service inquiries at **1-800-338-0563** or email us at **customerservice@trijicon.com**.

Appendix

Models & Accessories

Visit **Trijicon.com** or contact Trijicon Customer Service at **1-800-338-0563** or for all available mounts and accessories.

Patents & Trademarks

U.S. patents may apply to this product. For details visit Trijicon.com/patents

Limited Lifetime Warranty

The original owner of the Trijicon® product registered with the warranty card is entitled to repair or replacement (at our option) of the registered item if it should fail due to defects in material or workmanship during normal use. This warranty specifically applies to the optical systems and metal structure of the product and does not apply to the illumination system. The tritium lamp is warranted to glow for fifteen years in fiber optic scopes from date of original manufacture. If repair is necessary, please contact our Service and Repair Department for return instructions. This warranty does not apply to defects caused by anything which is deemed abnormal, abusive, or improper including any fault resulting from an accident or improper service. Please note that the manufacturer's warranty will be void and the product cannot be serviced if it is exported from the United States in violation of U.S. Export Control Laws and Regulations. Special Note: Trijicon® PRODUCTS CONTAIN TRITIUM AND ARE REGULATED BY THE NUCLEAR REGULATORY COMMISSION. THEY MAY NOT BE DISASSEMBLED BY ANYONE OTHER THAN TRIJICON, INC WHICH HOLDS THE NECESSARY LICENSES. Any attempt at disassembly or repair will annul this warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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