

Pin Point Scope Instructions

Before you Begin:

1. Make sure to inventory all of the components in this package as follows:

- (a) Pinpoint scope mounted to drop over base.
- (b) Hex keys. 3.5mm and 2.5mm
- (c) Set of adhesive turret tapes from 280 fps – 380 fps.
- (d) Instructional DVD

2. Be certain you have an appropriate target and backstop material to shoot into.

3. Be certain to use a solid rest to shoot and sight in with. Example, a shooting bench, a set of shooting sticks, sand bags or improvised method that allows you a solid position to steady your crossbow for the sighting in exercise.

4. Be certain you have a distance of 10 yards (30 feet) to shoot for the sight in exercise.

5. Be certain that you use a matched weight set of arrows that are identical to each other and are in new condition.

6. Be certain that you use a rope or crank cocking device for each shot to optimize your crossbow's accuracy, and cocking cycle consistency.

NOTE: The Pin Point Scope turret clicks are calibrated for ½" MOA. Which means in either plane, one click will move your point of impact ½" at 100 yards. However, because you will be sighting your scope in at a distance of 10 yards, you will need to adjust your clicks for the shorter distance; 20 clicks will move your point of impact one inch at 10 yards.

Remember 20:1:10 20 clicks per 1 inch at 10 yards.

Scope Anatomy



Installation of your Pin Point Scope:

Step 1. Loosen the scope base grub screws (2) with the 3.5mm hex key provided.

Step 2. Slide the base onto the sight bridge of your crossbow, allowing for approximately 3 – 4 inches of eye relief. Proper eye relief is achieved when you see a full sight picture without straining or stretching your head or neck. Looking through the scope should feel comfortable and natural.

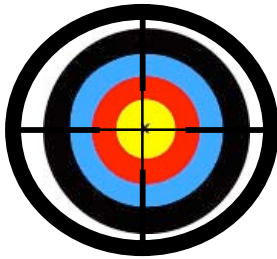
Step 3. Tighten the scope base using the 3.5mm hex key provided.

Step 4. Remove the protective lens covers from the scope.

Step 5. Turn the magnification down to 1.25x, and using the 3.5mm hex key loosen the 8 scope ring screws. The screws should be loose enough to turn or rotate the scope, but not so loose the scope can spin freely.

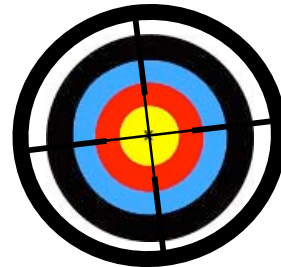
Step 6. Rotate the scope so that the horizontal crosshair is parallel with the crossbow string and limbs, when viewed through the scope. You may use the “Bore Scribe marks” on the ring and scope tube for a quick reference or starting point. Once the horizontal crosshair is leveled, tighten the 8 ring screws, and double check to be certain the scope has not moved from its optimum position. (Figure 1.)

Correct crosshair orientation



(Figure 1.)

Incorrect crosshair



You are now ready to proceed to a range to sight in your Pin Point Scope.

Standard Sighting In Procedure:

Step 1. Set up your target and back stop at a distance of 10 yards. (30 feet)

Step 2. Before you shoot your first arrow, turn the top turret clock-wise until it comes to a stop.

Now note there are two arrows on the turret base. These arrows will be used as your yardage indicator. If you are right handed, and place your right cheek on the stock to shoot, you will use the left arrow for your indicator. If you are left handed and place your left cheek on the stock to shoot, you will use the right arrow for your indicator.



Tip: After you are sighted in, use a black marker and ink out the indicator arrow you are not using to avoid any potential for confusion.

Step 3. Using the aid of a steady rest/bench, aim at the bulls-eye and shoot one arrow at the target from exactly 10 yards. Note where the arrow hit. If the arrow hits too high, turn the elevation dial (the largest dial at the back of the scope base) clockwise. If the arrow hits too low, turn the elevation dial counter clockwise until the elevation is correct. Note: Twenty clicks equals 1” at 10 yards. When elevation is correct, tighten the lockdown screw on the scope base; located on the left side of the base, closest to the back. **Be sure not to over-tighten this screw.** You will likely be able to put an arrow in the same hole consistently once you are sighted in.

Note: Adjust elevation (up or down) first. After elevation is correct, then adjust windage (left or right). **Do not try to adjust both at once.**

Step 4. Shoot another arrow from exactly 10 yards. If the arrow hits too far right, adjust the windage turret to the left. If the arrow hits too far left, adjust to the right. The windage (right or left) turret is located on the right side of the scope. Remove turret cap to expose the adjustment dial. Note: Twenty clicks equals 1” at 10 yards. After adjusting the windage, replace the turret cap.

If you need additional instruction on sighting in a scope, log on to www.parkerbows.com and click onto the “How to” section. Then select “How To Sight In Scope”. This video tutorial will expertly demonstrate how to sight in a scope.

Proceed to Method A or B to Complete the Pin Point Adjustments and Calibration.

Use this method if you do not know the speed your arrow is shooting.

Step 1. Refer to the adhesive turret tapes included in the scope package, and remove a “Blank” tape. (Figure 2)



Figure 2

Step 2. Apply the right hand edge of the tape at the 10 yard mark, to the turret precisely above the indicator arrow, and wrap around the turret with light finger pressure. You will be removing this tape shortly, so do not press it firmly to the turret.

Step 3. Step back to a distance of 20 yards, and shoot an arrow. Make note of where it hits. It will hit lower than the bulls-eye. Now turn the speed turret counter clockwise approximately $\frac{1}{4}$ ” and shoot a second arrow.

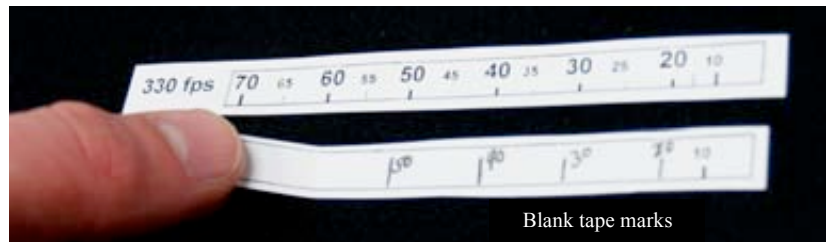
Step 4. Make note of where your second arrow hit. It should hit higher than the first arrow. In this process, keep adjusting the speed turret up or down until your arrow hits precisely in the center of the bulls-eye at 20 yards. When it does, using a pencil or pen, mark a line on the blank tape above the indicator arrow. Proceed to step 5.

Step 5. Step back to a distance of 30 yards, turn the speed turret counter clockwise approximately $\frac{1}{4}$ ” and shoot another arrow. Make note of where it hits. It will hit lower than the bulls-eye. Keep adjusting the speed turret until your arrow hits precisely in the center of the bulls-eye. When it does, using a pencil or pen, mark a line on the blank tape above the indicator arrow. Proceed to step 6.

Step 6. Repeat the same procedure at 40, and 50 yards, marking lines on your blank tape.

Step 7. Once you have a minimum of three new pencil or pen marks on your blank tape, (more marks are more accurate) remove the tape from the speed turret.

Step 8. Refer back to the adhesive label speed tapes included in your package. Using the blank tape with your pencil markings try to match and select the speed tape that closest matches the pre-printed speed tapes. Once you have found the closest match, remove the label and apply it to the speed turret.



Remember: Before you apply the pre-printed tape to the speed turret, turn the speed turret “clock wise” until it stops, and apply the tape lining up the right hand side of the tape with the 10 yard mark above the indicator arrow.

Method B (Using A Chronograph)

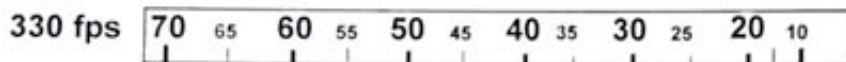
Step 1. Determine the speed of the arrows you are going to use to shoot/hunt with by using a chronograph. The preferred method would be to shoot a group of three arrows through the chronograph and determine the average speed of the three arrows.

Example: $330 \text{ fps} + 331 \text{ fps} + 332 \text{ fps} = 993 \text{ FPS} / 3 = 331 \text{ fps}$.

Step 2. Record the speed, and keep it for step 5.

Step 3. Referencing the earlier determined speed of your arrow in Step 1 (Example: 331 fps), refer to the adhesive turret tapes included in the package. The speeds of the tapes range from 280 fps to 380 fps in increments of 5 feet per second.

Peel off the turret tape that closest matches your speed. In this example 330fps.



Step 4. Apply the right hand edge of the tape at the 10 yard mark, to the turret precisely above the indicator arrow, and wrap around the turret with light finger pressure. Apply more finger pressure and smooth out the label to make sure the speed tape is firmly adhered to the turret.

Step 5. Your Pin Point scope is now calibrated for precision shooting, and customized to the speed your crossbow and arrow combination are shooting.

Step 6. To confirm your accuracy, it is advisable to proceed to a range with longer distances, and test shoot your crossbow at extended ranges before you hunt. We recommend shooting an arrow at each ten yard increment to confirm your yardages, and boost your confidence that your Pin Point scope is in sync with your rangefinder, and over ground distances.

Once you have determined the speed of your arrow, either with Method (A) or Method (B), it is recommended that you check the calibration of your scope using a Calibration target.

Step 1. Log on to www.parkerbows.com, and click on “RED HOT Accessories”. Then click on “calibration targets”.

Step 2. Click on the target that matches your arrow speed. Select “Print.” A target will print out for your speed. This is precisely the scale you will need to check the calibration of your Pin Point scope at 10 yards. (In this example it is 325 fps.)

Step 3. Place this target at exactly ten yards with the word “Calibration” at the top.

Step 4. Return to your shooting station, and turn the speed turret fully clockwise, indicating a distance of 10 yards.

Step 5. Support the crossbow on a steady surface – preferably a shooting bench – and aim the center dot of the scopes crosshair at the 10 yard circle on the card. Slowly turn the speed turret counter-clockwise while continually looking through the scope; you will notice the crosshair moves down the card. Stop when the center dot points at the 20 yard circle. Look at your speed tape to confirm the arrow is pointed at 20 yards.

Step 6. Resume looking through the scope, and continue checking each yard by repeating the above step by returning the turret to the 10 yard position and again point the center dot at the 10 yard circle on the card, then turn the speed turret counter-clockwise until the crosshair moves down the card to 30 yards. Look at your tape to confirm. Repeat for 40, 50, and beyond yards.

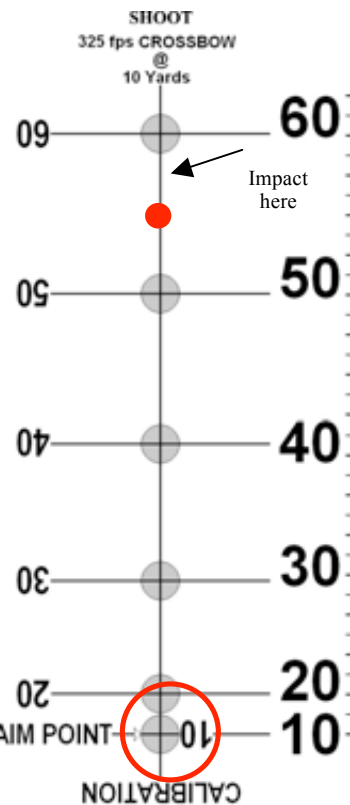
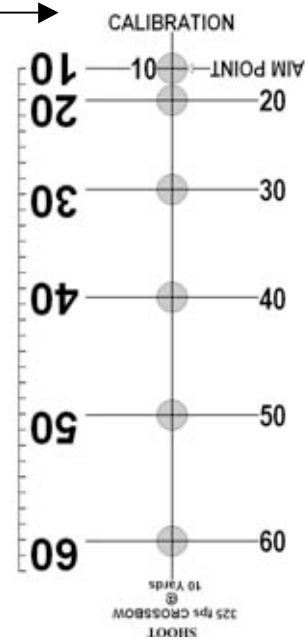
Step 7. Shooting the Calibration target... will confirm your scope is properly calibrated. Turn the calibration target over so the speed and the word “Shoot” is at the top.

Step 8. Return to your shooting station, and dial your speed turret to a longer distance. (Example 55 yards)

Step 9. Cock and load your crossbow, and take a steady aim at the AIM POINT of 10 yards.

Step 10. Squeeze the trigger making a good shot, and you will note the arrow struck the target at 55 yards. Your Pin Point scope is expertly calibrated and ready to hunt.

Tip: You may choose to print a few copies of the calibration target and keep them in your case to check your scope periodically throughout the season or after a long travel trip, should your crossbow be handled roughly by freight companies or airline handlers.



Dial 55 yards

Aim here