

Hyskore®  
**X-Ring®**  
**Precision Shooting Rest**

# 30270



The HYSKORE® X-Ring® Precision Shooting Rest is a state of the art gun support platform that has been designed for the shooter who demands perfection and precision. The most important and user driven feature of the rest is the rear mounted elevation control that can easily be operated by either hand without moving out of position. This feature represents a major advance over other shooting rests that are available to shooters today.

**Always wear appropriate vision and hearing protection when using this product!**

# Introduction

At HYSKORE® we carefully follow successful competition shooters at major F-Class, Bulls Eye, Bench Rest, and Long Distance events. You need to observe carefully to see both what is happening and what is not happening, as these are the things that contribute to winning the event. Successful shooters get into position; confirm their cheek weld, their grip, and their finger placement on the trigger, then they maintain this position from shot to shot. In order to do this it is necessary for them to be able to make precision adjustments from the rear of the shooting platform. Typically this can only be done by employing very expensive equipment and / or equipment custom built by the shooter.

The HYSKORE® X-Ring® Precision Shooting Rest allows the shooter to precisely adjust elevation up to 150 M.O.A. The twin helix elevation operates easily with one hand. By turning the knobs in one direction the gun is elevated and by turning it in the other it is depressed. The rest features 3 point leveling. Each leveler is a full 12mm diameter and it is ground to a 135° point so that it securely grips most shooting surfaces. In situations when the rest needs to be placed on a delicate surface it is equipped with protective rubber feet that fit over the points on the elevation jacks. Each jack is equipped with a locking collar to securely hold it in place.

Another key feature of the rest is adjustment security. By virtue of the fact that the elevation is a screw mechanism where the stress is opposed to the thread pitch, once an adjustment is made there is no creep or drift. It positively stays in place until changed by the shooter. The rest is equipped with a foam padded V notch front support and a filled rear “rabbit ear” rest bag. One of the questions that will certainly be asked is, “is it possible to secure the rest with bags of shot or sand to absorb the recoil?” The answer to this is absolutely not! Any attempt to restrain the rest to attenuate recoil will not only cause irreparable damage to the rest, but could also result in injury to the shooter. Needless to say, this type of damage would void any type of warranty coverage.



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Screw the locking collars onto the levelers and then screw the 3 levelers into their respective threaded holes. The levelers can be used as a secondary elevation adjustment.

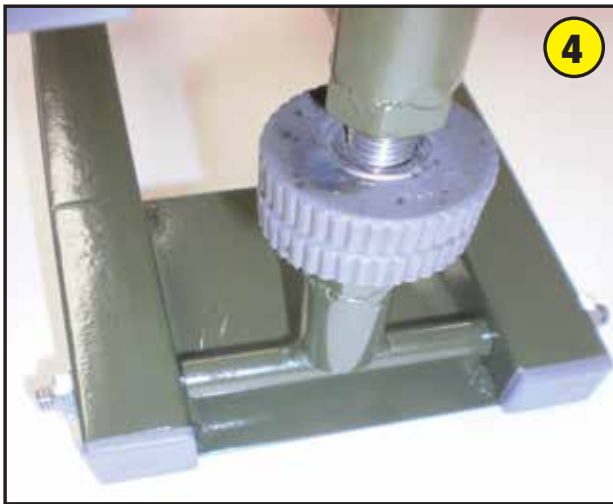


Center the upper assembly of the rest between the 2 support posts. Align the holes in the posts in the upper assembly and thread in 1 shoulder bolt from each side, tighten with a #2 Phillips screwdriver. Tighten enough so that the head of the bolt is flush with the support post, but not so tight that you create binding.



Using one of the 150mm (6") machine screws attach either end of the elevation assembly to the lower rest assembly.





Turn the rest over and attach the elevation assembly to the upper rest assembly using one 150mm (6") bolt and hex nut.

Turn both halves until they stop. This is necessary to calibrate the elevator. Do this before the next step.



Turn the knob on the elevation assembly so that 7/8" - 1" of thread shows above and below the knob. This will put the rest in the middle of the adjustment zone.



Thread the locking knob into the V notch shaft and thread it into the forward platform. This will serve as the coarse/primary elevation adjustment.



Place the rest bag on the rear platform.



Use acid free machine oil to lubricate the elevation assembly.

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This is how the assembled rest should appear.

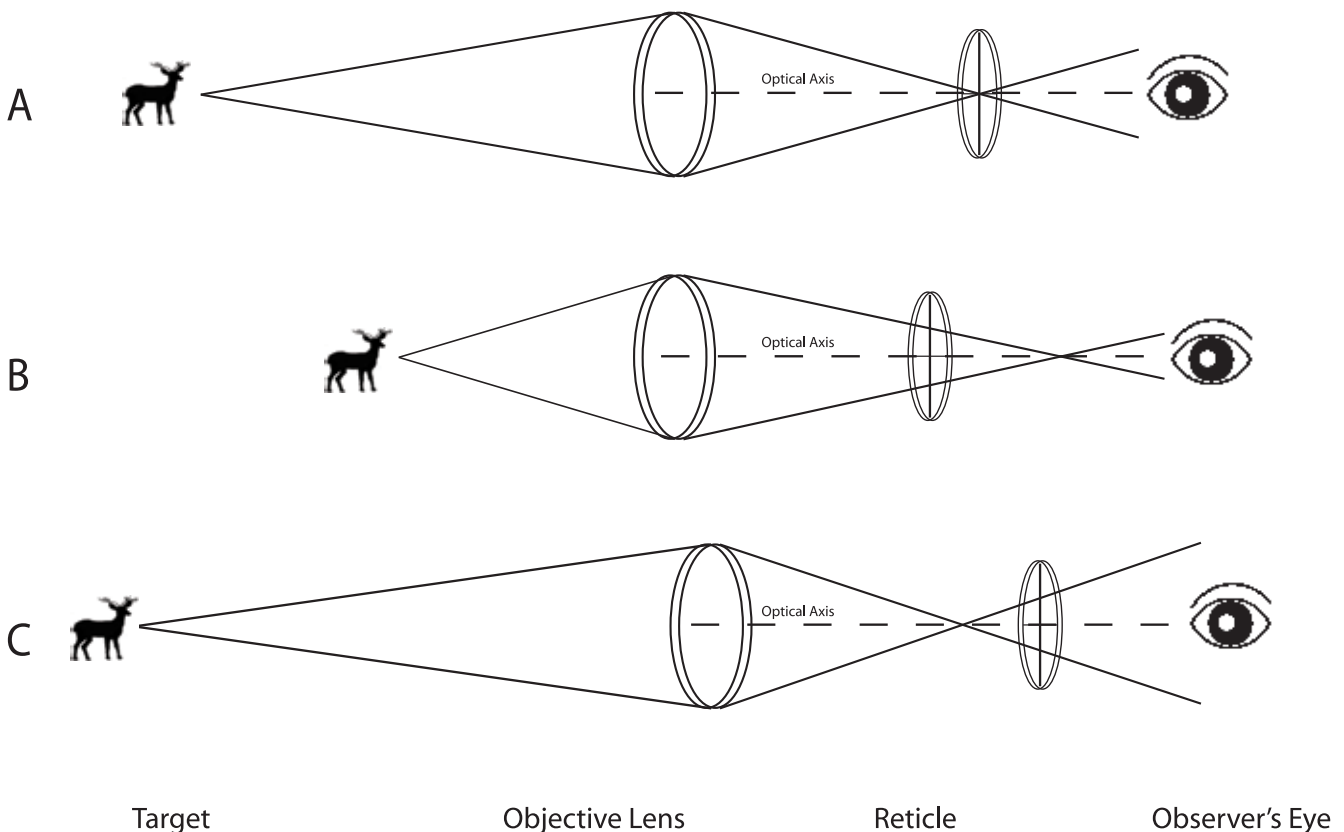
## PARALLAX

When attempting to achieve the highest degree of repeatability i.e. smallest group size, with any HYSKORE® shooting rest, it is important to have a clear understanding of parallax. Even experienced, good shots can improve their group size by up to 30% by paying close attention to parallax. Parallax is the difference in apparent position of an object viewed along two different lines of sight. To experience parallax extend one of your arms, hold an index finger up, close your left eye, and align the index finger with an object on the distant wall. Now close your right eye and open your left. The object has appeared to have moved. What has actually happened is that you are now viewing the object along a different line of sight. This is exactly what happens inside a rifle scope. We have prepared three diagrams to show you the various conditions that may develop in sighting with a scope.

- A. This is a parallax free focusing arrangement. The image of the target is focused on the reticle.  
(The reticle is the optical element inside the scope on which the cross hairs are inscribed.)
- B. The image focuses in front of the reticle and in this case you would experience parallax.
- C. The image focuses behind the reticle and also in this instance you could experience parallax.

The correction in diagrams B and C is to adjust the objective lens of the scope so the image focuses on the reticle. On better scopes there is usually an adjustment on the objective bell (this is the end of the scope facing the target) with yardage markings. By turning this you can approximate the correct adjustment. However, since parallax is magnification and range variable, it is a good idea to clamp the rifle in a solid vise on the bench top (The HYSKORE® #30022 Parallax Cleaning and Sighting Vise is perfect for this.) Look at the target through the scope and shift your eye left to right, if the cross hairs remain dead center on the target you are parallax free, if not, you need to do additional adjustment. Inexpensive and low magnification scopes are usually parallax free at a specific range, and do not have parallax adjustments.

Keeping the pupil of your eye concentric with the optical axis of the scope is critical to eliminating parallax. If you can keep your eye positioned on the axis every time you will experience parallax free shooting. Of course, this is almost impossible to do and repeat shot after shot. Moving your eye even a few thousandths of an inch off dead center, when parallax is present, will influence your visual alignment and cause you to change your point of aim, resulting in expanding your group. Therefore, you must make the appropriate adjustments at the designated range to remove parallax. Unfortunately, most scope manufacturers assume that all shooters have a working knowledge of parallax. As a result, the instructions they provide give little or incomplete details regarding this optic condition.





# • REPLACEMENT PARTS •

These are replacement parts for purchase. Pictures do not represent contents of set.

		
30207-5	30088-6	30105-4
		
30270-3	30207-6	30207-1
	<b>Parts List:</b> 30207 - 5 Rest Bag .....\$ 12.50 30088 - 6 Magnetic Level.....\$ 5.00 30105 - 4 Shoulder Bolt (2 pcs) .....\$ 5.00 30270 - 3 Protective Leveler Caps (3 pcs.).....\$ 5.00 30207 - 6 Leveler & Lock Knob.....\$ 7.50 30207 - 1 V Notch Elevation Assembly.....\$ 17.50 30270 - 5 Elevation Assembly.....\$ 22.50	
30270-5		

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P.O. Box 983  
Middleburgh, NY 12122  
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# Hyskore®



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