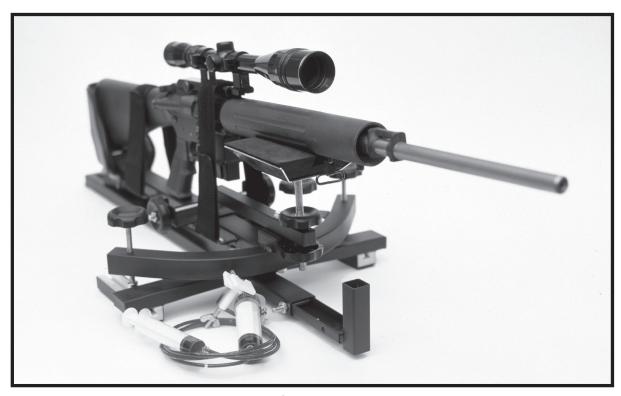
# Precision Gas Dampened Recoil Rifle Rest

# For the serious shooter



<sup>\*</sup> Always use appropriate eye & ear protection when using this device.

# Hydraulic Trigger Release Included

In the course of shipping and packing, parts may end up missing or damaged-call us at 631.673.5975. 8:30 a.m. - 5:00 p.m. Eastern Time. We will promptly send replacements.

For more detailed information visit our website: www.hyskore.com

### Introduction

#### READ THIS ENTIRE MANUAL BEFORE USING THE REST!

The purpose of the Hyskore® recoil rifle is to allow the shooter to fire the weapon without any human contact and possible motion contamination. By calibrating the weapon and/or ammunition in this manner the shooter is able to obtain a clear picture of weapon accuracy.

#### WARNING!!

This rest will accommodate most *factory* rifle / ammunition combinations that are in the hands of American shooters. However:

#### READ THIS CAREFULLY

This device is designed and constructed to operate consistently and safely within certain limits, i.e., *do not use gun/ammunition combinations that will exceed 50 ft. lbs. of recoil.* The following chart is a *general* guideline for recoil expectations. If you exceed 50 FT. LBS. you can expect several very bad things to happen as the travel of the damper will be exhausted and the gun carrier will "bottom-out". First: Expect damage to the gun stock as the inertia of the barrel / action will now be absorbed by that component. Second: For the same reason as above you can expect the action / and barrel to separate from the bedding. Third: You will damage the structural components of the rest. .50 BMG IS A DEFINITE NO! NO! You will also note several combinations that will exceed 50 FT LBS - DO NOT USE THEM -

If you're not impressed with damage to your weapon and your rest, over loading the device by using a light gun and/or too potent a loading has the potential to result in serious injury. Use common sense and observe, all firearms safety procedures. Never use this rest to fire any weapon that is not in " as new" condition or certified safe by a competent gunsmith.

Never exceed the Gun Manufacturer's maximum recommended loading for any ammunition.

| Approximate Recoil in FT LBS. |            |          |             |        |        |
|-------------------------------|------------|----------|-------------|--------|--------|
|                               | Bullet     | Muzzle   | 7.0 LB      | 8.0 LB | 9.0 LB |
| Cartridge                     | Weight     | Velocity | Gun         | Gun    | Gun    |
| 12GA                          | 525 (Slug) | 1522     | 46          | 38     | 34     |
| 22-250 Rem                    | 52         | 3800     | 6           | 5      | 5      |
| 223 Rem                       | 52         | 3417     | 5           | 4      | 3      |
| 25-06 Rem                     | 85         | 3400     | 14          | 13     | 11     |
| 30-06 SPFLD                   | 150        | 2850     | 23          | 20     | 18     |
| 30-06 SPFLD                   | 200        | 2600     | 29          | 25     | 22     |
| 308 Win                       | 150        | 2750     | 18          | 16     | 14     |
| 308 Win                       | 200        | 2350     | 20          | 18     | 16     |
| 300 Win Mag                   | 150        | 3210     | 33          | 29     | 26     |
| 300 Win Mag                   | 200        | 2850     | 38          | 33     | 29     |
| 300 Rem UM                    | 150        | 3670     | 45          | 40     | 35     |
| 300 Rem UM                    | 200        | 3130     | <b>52</b> * | 45     | 40     |
| 300 WBY Mag                   | 150        | 3424     | 39          | 34     | 30     |
| 300 WBY Mag                   | 200        | 3014     | 45          | 39     | 35     |
| 8mm Mauser                    | 150        | 2695     | 18          | 16     | 14     |
| 8mm Mauser                    | 200        | 2434     | 24          | 21     | 18     |
| 338 Win Mag                   | 160        | 3098     | 37          | 33     | 29     |
| 338 Win Mag                   | 270        | 2930     | 39          | 34     | 30     |
| 375 H&H                       | 300        | 2700     | 55*         | 48     | 42     |
| 460 Rigby                     | 400        | 2380     | 89*         | 78*    | 69*    |

\* Do Not Use These Loadings, Excessive Recoil!!!

Repeat: if you do something dumb, bad things can happen. The chart is only a general guideline. For more detailed recoil data (as of this writing) there are several good websites that you can reference:

1. www.real-guns.com4. www.handleads.com2. www.zvis.com5. www.rfgc.org/reload3. www.chuckhawks.com/recoil6. www.siskguns.com

The recoil that you feel is a function of the action-reaction (as per Isaac Newton) created as the bullet moves forward in the barrel and, shortly thereafter, gas exiting the muzzle (Rocket Effect). Therefore, *the quantity of propellant in addition to* gun weight, bullet weight and muzzle velocity is an important factor in determining recoil. Make certain that this is part of your calculation.

Calculate your recoil carefully and DO NOT EXCEED 50 FT. LBS!

#### A WORD ABOUT ACCURACY

When it comes to shooting, the word "accuracy" really refers to group size. Once the group is established, adjusting the sights to move the point of impact to the point of aim is a simple task. A gun/ammunition combination that shoots to 1, 3, or 5 MOA is just that. No matter what device you use to support the gun that group size will not change, not to mention extraneous factors such as sighting device, wind, stability of the shooting platform, trigger pull, parallax and/or the shooter. There is a long list of factors that can affect group size. Below we have attempted to briefly address a few of the more common ones. All comments are made with the "all things being equal" and "under perfect conditions" provisos. Please consider this a general guide that might point out a few things that might not have come to mind. Our #30013 Dangerous Game®, #30003 Precision Rifle Rest and #30088 DLX Precision Rifle Rest are designed to produce repeatable results. If the rests are properly assembled, securely anchored to a bench that is rock solid and does not shift under the stress of recoil, you will be able to maximize repeatability. Each rest will consistently repeat well under 3 MOA. What this means is that if the gun/ammunition combination is capable of shooting groups of less than 3 inches at 100 yards (nominal 3 MOA), you will be able to realize this degree of repeatability with either rest. The big word in the previous sentence is "IF". Neither rest will make a 3 MOA gun place all of the bullets in one hole. The group will still be 3 MOA. If your bullets are not all forming a tight group, there is a high probability that the problem is a result of the gun, ammunition and/or the sight.

\* MOA - Minute of arc - A circle has 360°, each degree has 60 minutes, i.e. 1/60th degree. 1.0 MOA is exactly 1.047 inches at 100 yards.

#### **CENTER FIRE ACCURACY**

A large percentage of the rifles, old and new, in the hands of American sportsmen will not shoot much better than 2.5 MOA with exceptional guns shooting 1.0 – 1.5 MOA, (assuming the ammunition is correctly matched to the gun). The average deer rifle, using popular brand, off the shelf ammunition is probably capable of 2.5-3.0 MOA because the gun and ammunition manufacturers know that a typical white tail is statistically harvested at a range of less than 100 yards, and a gun that places the bullets within 3 MOA will easily place all of them within a heart sized circle. Manufacturing guns and ammunition that will shoot under 1 MOA is, of course, done every day, but there are only a few manufacturers that guarantee that result, and then only with ammunition that they specify. The costs associated with the manufacturing, quality control, and attention to detail, price these guns out of reach of a large part of the market. With that being said, a gun/ammunition combination with 3 MOA accuracy, properly sighted in, will usually get the job done and nobody will know the difference. The target is dead —end of story. The point here is that if your gun is shooting at or beyond 3 MOA, the issue is, in all probability, a combination, of factors that can affect accuracy. We have prepared a short list of issues you may want to consider in examining the group size of your rifle.

- A. Bolt action sporting rifles are by nature and design typically more accurate than pump, lever, or semi-automatic rifles. The reason for this is the bolt action tends to be much more rigid, and therefore flexes less. In addition, a bolt action usually has a larger and stronger extraction mechanism, which means the chamber can be made to closer tolerances than other types of actions. Believe it or not, not all ammunition in the same caliber is made to the exact same dimensions by all manufacturers. For example, SAAMI (Sporting Arms and Ammunition Manufacturers Institute, www.saami.org publication ANSI/SAAMI Z299-1992) allows a variance of up to -.008 under the standard for diameter, and up to -.007 under for the standard distance from the base to the shoulder (this determines headspacing) for center fire 30-06 ammunition. (Variances across most calibers are similar.) The extraction mechanism in pump, lever, and especially in semi-automatic weapons must be able to consistently and effectively extract cartridge cases at a rate equal to the cyclic rate of the weapon using the entire range of commercially available ammunition. This can be problematic if the cartridge fits too tight in the chamber. As a result manufacturers tend to make these chambers more tolerant of ammunition that may tend towards the larger end of the size range. Conversely, if ammunition manufacturers want their product to function in guns typically in the hands of sportsmen, they must also consider how easily the cartridge seats and extracts. Needless to say, there are exceptions to this, but as a rule as you move away from a precise cartridge chamber fit accuracy suffers. This is especially apparent in military weapons because they must chamber ammunition from various sources (therefore with various tolerances) and must function even if the ammunition is corroded or dirty. Reliability, not pinpoint accuracy is the primary criteria.
- B. Match the correct bullet weight to the twist of the rifling. This is one of the most commonly overlooked factors that determines group size. If the bullet length and twist rate of the barrel are not synchronized, accuracy will suffer. A 110 grain .308 bullet is, of necessity, shorter than a 220 grain .308 bullet. For proper stabilization the heavier, and hence longer bullet, requires a faster rate of rifling twist than a short, light bullet. Further to this point, different guns respond differently to ammunition from different manufacturers. The point here is that you should test fire ammunition from several manufacturers and select bullet weights that are compatible with the rate of twist of the gun's rifling. Generally speaking, twist rate is stamped on the barrel or the information is available from the manufacturer. You need to test different bullet weights to optimize results.) The following websites will give you more information regarding this issue:

www.snipercountry.com/hotlips/twistrate.html www.uslink.net kwk.us/twist.html en.wilkipedia.org/wiki/rifling www.gsgroup.co.za/cip.html

#### Calculating Twist Rate

Legend:

BL = Bullet Length

BD = Bullet Diameter

C = 150 constant for muzzle velocity 1500-2800 FPS

C = 180 constant for muzzle velocity over 2800 FPS

(choose the correct constant for the ammunition you are using)

#### Formula:

First divide the bullet diameter (for example .224) into the bullet length (for example .712). Divide the result into the correct constant (150 or 180) and multiply the result by the BD (for example .224). The results is the **approximate minimum** twist rate necessary to stabilize the bullet - Remember a 1:9 rate is faster than a 1:14 rate.

Example A: .223 (5.56 x 45) @ 3200 FPS, 52 Grain, BL= .712 BD=.224 
$$180 = 180 = 180 = 56.64 \times BD = 56.64 \times .224 = 12.7$$

12.7 is the optimum rate of twist

$$\frac{150}{BL} = \frac{150}{.224} = \frac{150}{4.9} = 30.6 \times BD = 30.6 \times .224 = 6.86$$

6.9 is the optimum rate of twist

If you use the 52 grain bullets in a 7.0 twist barrel the result will be fairly accurate. If you use the 75 grain bullet in a 12.0 or 13.0 twist barrel your group will probably be all over the target.

#### Diameters of Popular Bullets

| .204204 | 7mm284. |
|---------|---------|
| .223224 | .308308 |
| .243243 | .338338 |
| .270277 | .375375 |

Bullet length varies by manufacturer and style. For this information check with the manufacturer or take an actual measurement.

- C. A perfectly formed muzzle crown allows the gas to escape in a uniform pattern around the base of the bullet as it exits. Through improper cleaning and handling the crown of the muzzle can be easily damaged. Even a small ding, which may not necessarily be visible to the naked eye, can cause an uneven release of gas, which can heel the bullet over slightly, producing a yaw attitude. This will affect the bullet's stability and accuracy, as the long axis of the bullet will no longer be coincidental with the path of travel.
- D.The quality of the ammunition you use can have a direct result on repeatable group size; the more consistent the ammunition, and the components from which it is manufactured, the more consistent the results. Several manufactures make match grade ammunition where the components are carefully selected and screened for consistency and conformance to specification. (One of the manufacturers that are best known for achieving the most consistent results is Black Hills <a href="https://www.black-hills.com">www.black-hills.com</a>). There are several other manufacturers that make acceptable match grade ammunition, and there are other options. If you are a re-loader, you are already aware of the range of quality components available and in all probability you are able to produce consistent, high quality ammunition.
- E. Vertical Grouping See Rim Fire section point D.
- F. Check Your Scope and Mounting With older and especially inexpensive scopes it is not uncommon for the reticle to stick or shift, especially under heavy recoil and/or temperature extremes. If this happens your muzzle could end up pointing in a slightly different direction after each shot. To check for this condition, lock the gun in a vise that doesn't move and sight the reticle on a set point/target then use a piece of wood or other object (that will not do damage), to tap the scope tube to imitate recoil. If the reticle moves from the original point of aim, you have a problem with the scope. Also check the scope mounting using the same procedure. Mounts and rings frequently become loose due to recoil and heat. In addition to properly mounting a scope the rings must be lapped and centered otherwise there may not be sufficient contact to secure the scope. Even Locktite doesn't insure that mounts and rings will not shift.

- G. Parallax is the apparent shift of the target relative to the reticle due to the horizontal movement of the observer. Scopes with parallax adjustments must be correctly adjusted. Scopes without a parallax adjustment are generally range specific for parallax free sighting. If you have made the adjustments to eliminate parallax you are good to go. If not, it is important to make sure that the longitudinal optical axis of the scope that runs through the center of the crosshairs is directly aligned with the pupil of your eye. If you have an inconsistent cheek weld to your stock or fail in any other way to address parallax your groups will suffer from horizontal dispersion, i.e.:open up left to right. This will happen because your view of the target in the horizontal plane will vary with each shot.
- H. Barrel temperature plays a major role in maintaining group size. As a barrel heats up torsional stress will cause the barrel to twist. Bench rest shooters wait several minutes between each shot to keep the barrel from overheating. If you fire 10 or 12 shots in rapid succession from a sporter weight barrel your groups will expand.
- Other factors, which we will not explore here include: Free floating barrels, bedding, barrel harmonics, etc. -Not to mention the shooter!

#### **RIM FIRE ACCURACY**

(Some of this applies to center fire rifles also.)

Accuracy in a rim fire rifle is to a large degree more dependent upon the ammunition as opposed to the equipment. Center fire ammunition can be loaded and/or reloaded to precise and consistent specifications. Rim fire ammunition can only be loaded at the factory level. Since rim fire ammunition is not re-loadable, it is necessary to use whatever is commercially available. Factors affecting rim fire accuracy are:

- A. As with a center fire cartridge there is a SAAMI specification (ANSI/SAAMI Z 299.1-1992) and variance for the dimensional aspects of rim fire ammunition that allows up to -.004 under the standard diameter for .22 long rifle match or sporting ammunition. Consequently, manufacturers make ammunition within the entire range of this variance. As a direct result a gun that is expected to perform reliably must be able to accept the full range of available ammunition. What this has led to are guns that are match chambered which are invariably bolt action. (The chambers in these guns have a tight precise cartridge fit and the guns perform best with match grade ammunition that is made to close tolerance), and then we have most other guns that have sporting chambers, many of which are auto loaders. The chambers in these guns must be made large enough so that the gun will cycle correctly with any off the shelf brand of ammunition which could be manufactured to any size within the allowable range of tolerance. i.e., This means the cartridge may fit loosely in the chamber. Due to gravity the cartridge settles into the lowest portion of the chamber. The result is that the center axis of the chamber, and hence the center axis of the barrel is not aligned with the center axis of the bullet. This means that the bullet will engage the rifling off center and will travel down the barrel and exit the muzzle at an angle resulting in a loss of stability and accuracy.
- B. Concentricity If the long axis of the bullet is not concentric with the long axis of the case it will also not be concentric with the long axis of the bore, as above the bullet will travel down the barrel and exit the muzzle at an angle with similar results. As little as .002"–.003" off center will cause a noticeable enlargement of the grouping.
- C. Head Spacing is the distance the bullet must move from the casing until it engages the rifling. In a rim fire this is controlled by the thickness of the rim. According to SAAMI standards rim thicknesses may vary from as little as .036" to as much as .043". A gun may perform much better with one rim thickness as opposed to others. It is therefore important to test your gun with a wide range of ammunition. Typically in a box of inexpensive ammunition you will find a considerable variance in rim thicknesses. This will usually result in expanding the group size; consistency of rim thickness will result in smaller, consistent group sizes. Both concentricity and rim thickness can be measured by using the HYSKORE® #30075 Ammo Analyzer.
- D. If the group spread is more vertical than horizontal it is usually the fault of the ammunition. At a known distance, a faster bullet reaches the target quicker and drops less, i.e. gravity has less time to act. As you may appreciate, the small quantities of primer and propellant used in a rim fire cartridge must be precisely and accurately measured in order to produce consistent velocity. Only a small variance in absolute terms translates to a significant percentage variation and by extension, variation in velocity. Maintaining this type of consistency across large production runs is incompatible with maintaining low cost. Primer compound has an explosive force in the magnitude of 25 to 50 times that of the propellant. As little as 1/10 grain (1/70,000 lb.) deviation will cause a velocity differential. With these thoughts in mind, the culprit in groups that open top to bottom is almost always inconsistent velocity. The faster bullets strike higher and the slower ones lower.
- E. Scope Problems See "F" and "G" under Center Fire.

The aforementioned issues represent a brief synopsis of various conditions that may affect accuracy. There are numerous in depth studies that can provide detailed analysis of each situation. We are not experts and do not intend to be. Our comments and suggestions are the result of studying and compiling data from a wide range of sources. Furthermore, we have only touched on the more significant factors that affect accuracy. If you elect to make adjustments to your gun/ammunition combination to increase accuracy, we suggest that you address each issue one at a time. Do not try to make multiple corrections at the same time as you may contaminate the results, and possibly obscure important issues that need further attention.

# Before proceeding make both a visual and mechanical examination to make sure the weapon is unloaded.

#### **Instructions:**

- 1. Place the rest on a solid, level, flat surface. Pointing down range!
- 2. Extend and invert the bench grip, fix it to the rest with the supplied nut and bolt. **Figure # 1**
- 3. The arm of the bench grip and the tail of the rest are drilled with 1/4" holes use them to securely anchor the rest.

**NOTE:** Before you firmly anchor the rest check your elevation. If it is too high, it may be necessary to elevate the rear end of the rest with a wood block.

- 4. Set the gun in place. Securely wedge the butt into the socket.
- 5. Set the elevation of the fore end support. Do this before you secure the weapon. Figure # 2
- 6. Using the rear Velcro strap *snugly* fasten the gun into place. **Figure # 3**
- 7. Secure the forward strap allowing for the barrel to rise no more than 1/4".
- 8. Clamp the trigger release to the trigger guard. **Figure # 4**. Follow the instructions that accompany the trigger release.
- 9. Use the fine elevation and windage knobs to zero in. Use the left and right hand knobs to adjust cant.
- 10. You are now ready to fire.
- 11. After your first 3 4 shots the gun should be firmly seated. Check and adjust your sight picture. Make any appropriate adjustments.



You will have a tendency to look through the sight when firing - DO NOT DO THIS!!!

- 1. Do not put your eye or face or hand (or any other body part) behind the sight, scope or anywhere else near the gun. A 30-06 will generate 1.5 2.0" of very rapid rearward travel. If you're in the way, you will get hurt.
- 2. Always wear approved eye and ear protection.
- 3. Velcro does not last forever. When it shows signs of wear or degradation in grip, replace it.
- 4. **Do not drop!** All parts are factory aligned then welded into place. If you bend something it may not be repairable or replaceable. Using the rest in damaged condition could result in injury.
- 5. Load one round at a time. This way the gun will have uniform weight every time it is fired.
- 6. Do not use high capacity magazines as there will not be sufficient clearance under the gun.

#### **Maintenance:**

- 1. All the non-contact metal parts are powder coated. This is a durable finish. However, if you don't dry it off after it gets wet, eventually it will rust.
- 2. Lubricate all points where there is contact between moving parts. White lithium grease works well.

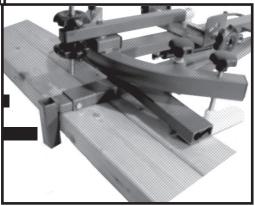


Figure #1

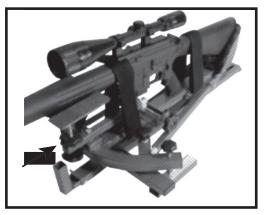


Figure # 2

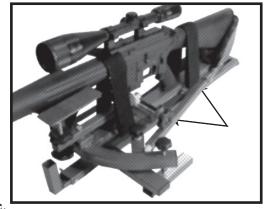


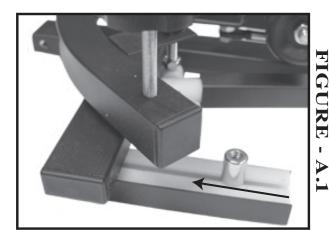
Figure # 3



#### **Installation of Elevators:**

- 1. With the knob facing up thread the shaft of the elevation screws down through the threaded holes at the ends of the carrier assembly (30003 8). Allow 1" of thread to extend through the bottom. **Figure A.1**
- 2. Slide the glide (hole facing up) into the slot in the lower frame (30003 6). Move it under the elevation screw and engage the threads. **Figure B.1**

Hold with a plier and *hand tighten* to 4 - 5 Lbs Ft torque. Repeat on the other side and adjust to level.



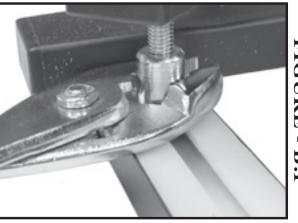


FIGURE - B.1

#### **Side Play:**

Sometimes due to shipping, handling, or use the upper carrier (30003 - 8) will develop slop or side play. This is easily remedied.

At the front end of the 30003 rest (**Figure A.2**) there is a bolt that forms the pivot for the windage adjustment. Tighten this just enough to remove any excess play.

#### DO NOT OVERTIGHTEN!

At the rear of the 30003 rest (**Figure B.2**) directly under the butt socket (30003 - 3) there is a bolt that engages the rear glide assembly. Tighten this just enough so that no threads are showing.

DO NOT OVERTIGHTEN!

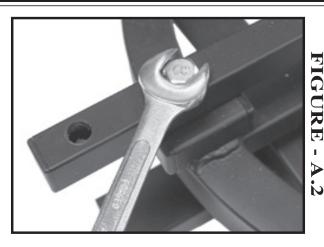
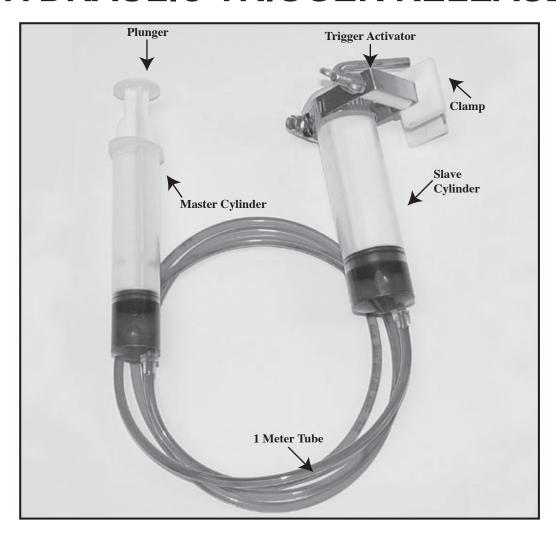
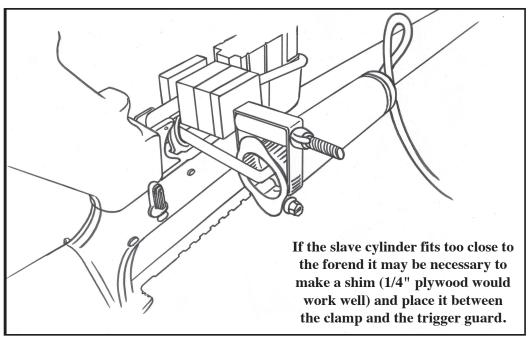


FIGURE - B.2

# **Hyskore**®

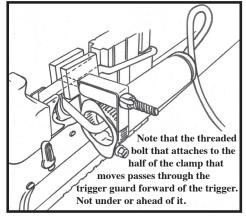
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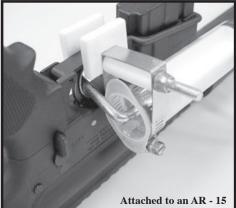


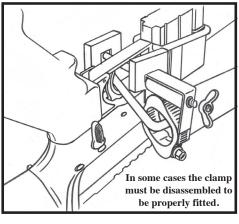


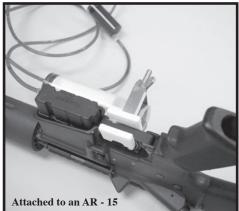
## **Instructions for Attachment**

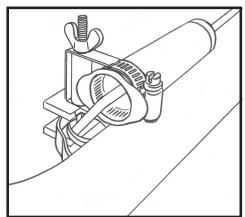
visit our website for more information: www.hyskore.com











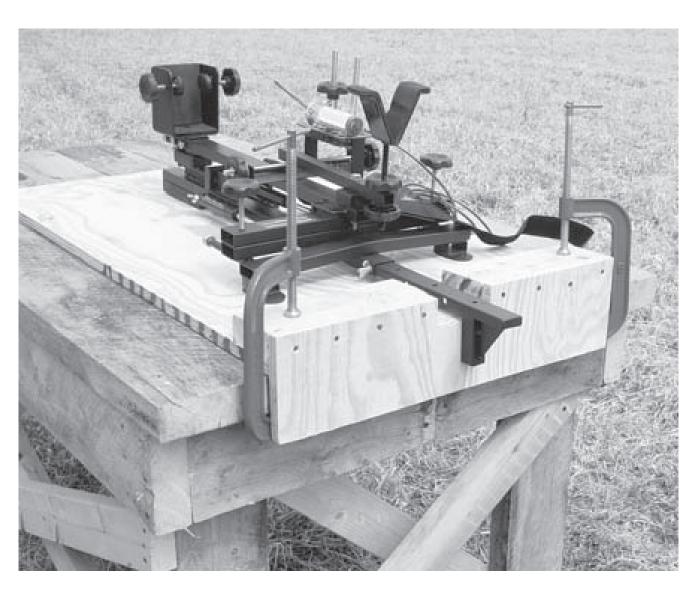


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# Hyskore®

# Suggestions For Building A Shooting Bench Platform

For the 30013 Dangerous Game® Rest or 30003 Precision Rifle Rest



At many ranges the benches are concrete or it is inappropriate to anchor the rest using screens. A portable bench platform handily solves this problem.

#### SET 1



Using a 24" x 48" x 3/4" piece of Plywood cut a 6" x 24" section of the plywood for the front edge brace.

#### SET 2



Cut 2 - 10" Pieces of 2 x 4. Glue and screw them to the Plywood base.

#### SET 3



Use 2" screws to secure the 2" x 4" x 10" blocks from the Underside.

#### SET 4



Glue & Screw (w/ 2" screws) the 6" x 24" piece of plywood across the front as shown.

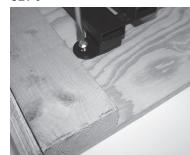
Use 2" x 6" (or 8") stair angles for reinforcement. Secure with screws.

#### SET 5



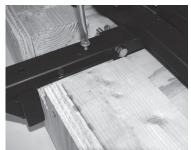
Notch the front brace so that the edge of the notch is flush with the surface of the plywood base. This can be done either before or after it is fixed in place.

#### SET 6



Use 2 - 5/16" x 3/4" sheet metal screws to anchor the left & right sides of the rest. You may find it necessary to stack several flat washers between the flange on the rest and the plywood.

#### SET 7



Use 1 - 5/16" x 1 1/2" (or 2") sheet metal screw to anchor the bench grip arm.

#### SET 8

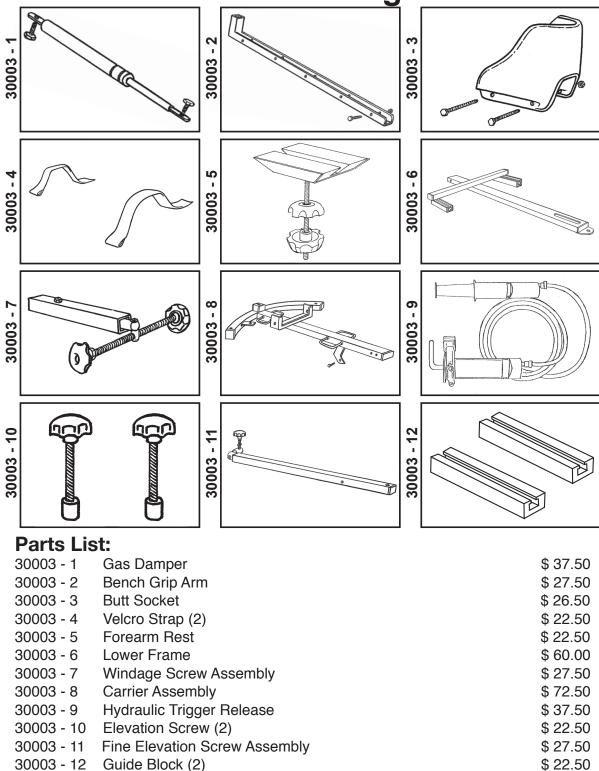


Use 2 or 4 - "C" Clamps to anchor the completed set-up to the bench.

#### WARRANTY AND DISCLAIMERS

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Parts List & Diagram



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

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