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# Lone Star Field Products

**Spec-Rest™**  
**Sportsman Field**  
**&**  
**Modular Sniper Optimization Platform**  
**MODSOP**  
**User's Manual**

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U.S. Patent: **7,730,824**. The Spec-Rest™ unit is a non-restricted 'COTS' item.

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## **ABOUT SPEC-REST**

Spec-Rest is a man-portable field rest that uses patented technology to platform any shoulder fired weapon to its optimum performance of achieving hyper-accurate results. Using current patented technology by Lone Star Field Products®, the Spec-Rest™ Modular Sniper Optimization Platform MODSOP with Live Screw Variable Drag Technology LS/VD, maximize a shooter's performance by attenuating vibration and managing felt recoil in the weapon.



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## ▪ **SAFETY WARNING**

Always use great care with all firearms. A mistake in judgment or lapse of attention can result in serious injury or death.

The information in this manual, while believed to be accurate at the date of publication, is not warranted or represented to be accurate, correct, or useful for any particular purpose. Use the information in this manual with caution and common sense, and verify it with respect to your own firearms before use.

The author and publishing company accept no responsibility for errors in the information presented herein, or for accidents, injuries, damage, or any other problems which might arise as a result of your use of the information on this product contained in this book, and expressly disclaim all liability for injuries, death, and damages, whether direct, incidental, consequential, punitive, or otherwise

Ensure that at all times, proper clearing procedures of firearms are completed first before interfacing with this product.

1. Handle the weapon while facing in a safe direction
2. Remove source of ammunition
3. Lock bolt to the rear, visually and physically inspecting the chamber
4. "Buddy" checks the weapon

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## **INTRODUCTION TO SPEC-REST**

**Key Components** There are 2 Major Groups:

1. Head
2. Mount

The head consists of the mechanical actuator, yoke arm assembly and spindle

The mount is manufactured in three current versions to include tripod, quad-pod and clamp

Spec-Rest™ was awarded a full non-provisional utility patent on 20 claims, as filed by the U.S.P.T.O.



**Spec-Rest Head**

(Mounted on tripod)

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**Tripod**

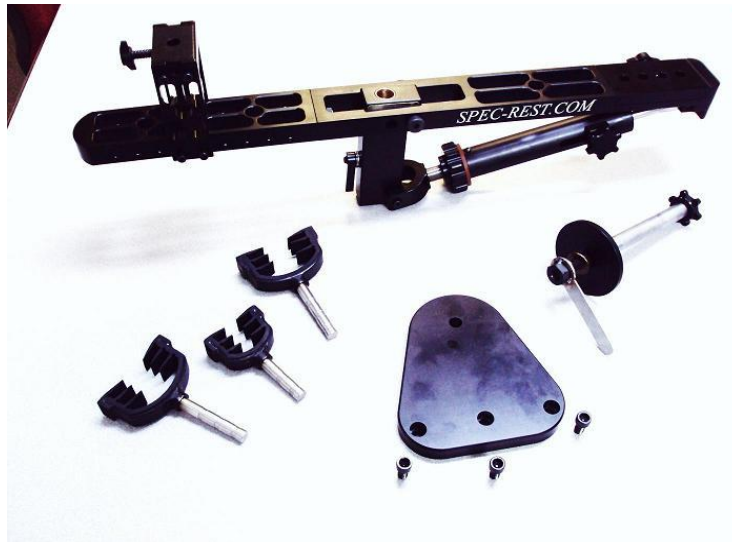


**QUAD POD**

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**CLAMP**



**ARMORED PERSONNEL CARRIER MOUNT**

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## **APPLICATIONS**

Originally designed for hunters, the Spec-Rest™ has proven itself as the most versatile of weapons platforms and has been tested and evaluated for the following operational environments:

- Maritime /Anti-Piracy
- Law Enforcement (permissive environment)
- Military (non-permissive environment)

## **CHARACTERISTICS**

The Spec-Rest is designed as a precision tactical shooting platform. It allows the shooter to greatly extend the range of precision shots, increasing speed to target acquisition, whether in a static or dynamic position.

The design is so innovative that it allows you to drag your sights onto a target through gross rapid adjustments and simultaneously transition to micro-elevation adjustment. This is an instrument quality platform that delivers precision results.

Designed to accommodate mission requirements of shooters when a prone position cannot be achieved, the Spec-Rest can maximize standard and non-standard positions whether kneeling, sitting or standing with precision repeatability. Each platform in the **Spec-Rest™ family** is precision-machined using Aircraft quality Aluminum Alloys, Steel, and Stainless Steel. All units are Custom Powder Coated for durability.

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NOMENCLATURE	WEIGHT	OPTIONS
HEAD	10.5 lbs	1913 Rails with *CARC in MODSOP
TRIPOD	19 lbs	Field Sportsman Model
QUAD POD	4.5 lbs	Collapsible version in MODSOP model
CLAMP	6.0 lbs	Prototype- Law Enforcement
YOKE	10oz.	Two sizes to accommodate multiple firearms chassis
YOKE EXTENDER	10oz	25 degree raked Yoke arm receptacle for M-16A2 stock

\* Chemical Agent Resistant Coating

## Yoke Adjustments

Every unit is shipped with three yokes. There are 2 narrow yokes and 1 wide yoke. The gun should fit snugly into the yokes. Select the two yokes most appropriate for your rifle and mount them front and rear. An important feature of these yokes is that they are designed to be hand-formed providing a custom fit to your weapon

The front yoke mount is adjustable, but for 95% of the applications, the “as shipped” position of the yoke mount will work just fine. There are 4 positions to mount the rear yoke shaft. Use the one that is most comfortable for you as the shooter. Locating the gun so that it is balanced on the base usually gives the best results.

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## **Gross Elevation Resistance Adjustment**

This adjustment is made using the star knob on the side of the tube connecting the rear of the SPEC-REST arm to the housing that slips over the shaft. Adjust to produce a smooth motion while adjusting your elevation. Some amount of resistance is necessary to allow the gun to stay on target and to give the micro-elevation adjuster enough resistance to be effective.



Figure 1.1

## **Micro-Elevation Adjustment**

The large knurled knob is turned to make micro-elevation moves on your target. Turn to the left or the right to move the crosshairs up or down on a distant target. You can start micro-adjusting as you are finishing your gross move for a seamless transition.



Figure 1.2

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## **Traverse Adjustment**

Adjust the amount of resistance that is comfortable for your touch and shooting style by tightening or loosening the lever on the front of the rotator housing that slips over the shaft. As you traverse left and right to locate and track targets of opportunities, it is beneficial to be able to stop and remain on your intended target. Adjust resistance to provide steady and smooth economy of motion.



**Figure 1.3 Traverse Lever**

## **DISASSEMBLY/Field Model**

1. Remove the Star Knob on top of the unit
2. Loosen the Traverse Lever on front of the rotator assembly
3. Hold the base firmly and pull the Head upward.

Note: Do not pull the Head upward at an angle; it must be pulled straight up to avoid damage to the main shaft. Pulling upward with a slight twist is acceptable.

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You will notice that there is one (1) white Teflon washer in each assembly. This is used to reduce the drag coefficient between the Head and the Mount, for a more efficient traverse.



**Figure 2.1-Removing Star Knob**



**Figure 2.2-Removing Head**

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4. Loosen T-bolt at the Yoke Arm insert hole, and remove Yoke Arm from either the Extender or the Head.



**Figure 2.3-Yoke Arm Extender Removal**

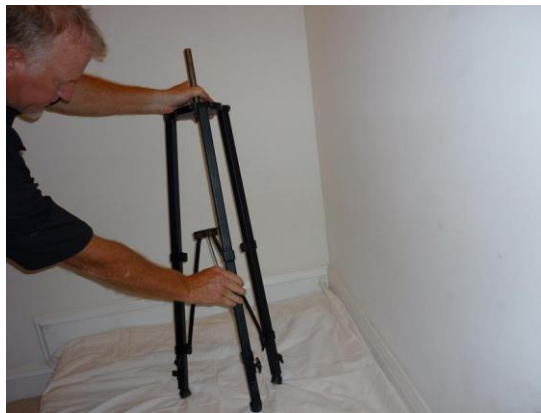


**Figure 2.4-Yoke Arm Removal**

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5. The tripod will easily fold and can be placed inside of the tactical carrying case provided.



**Figure 2.5 Folding the Tripod**

6. The Quad Pod spindle can be removed by loosening the spindle anchor bolt with the wrench provided, allowing the operator to lift the spindle out of the quad pod.



**Figure 2.6-Loosening Spindle anchor bolt on Quad Pod**

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**Figure 2.7-Removing Spindle from Quad Pod**



**Figure 2.8- Display- Spec-Rest Head and Quad Pod**

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## **DISASSEMBLY/MODSOP**

The MODSOP version of the Spec-Rest is currently under development with certain design components being tested by our engineers. With the exception of certain components, the MODSOP is engineered exactly as the Field Model. We have added certain items to the Head to accommodate various attachments for both military and law enforcement applications.



**Figure 2.9-MODSOP**

Also, the Quad Pod has been designed to collapse down to meet the requirements for military free fall missions. The MODSOP version is also fully coated with chemical agent resistant coatings **CARC** in either desert tan, or olive green.

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1. Remove the Star Knob on top of the unit
2. With the Traverse Lever tightened, rotate the Head counter-clockwise in order to loosen the spindle from the Quad Pod



**Figure 2.10-traverse Lever**

3. Loosen the Traverse Lever on front of the rotator assembly
4. Hold the Mount firmly and pull the Head upward.



**Figure 2.11-Removing Head**

Note: Do not pull the Head upward at an angle. It must be pulled straight up to avoid damage to the main shaft. Pulling upward with a slight twist is acceptable.

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You will notice that there is one (1) white Teflon washer in each assembly. This is used to reduce the drag coefficient between the Head and the Mount, for a more efficient traverse.

5. Loosen the spindle and remove from the Quad Pod



**Figure 2.12- Spindle**

6. The MODSOP Quad Pod can now be disassembled into two parts



**Figure 2.13- Quad Pod intersecting guide pins**

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7. The MODSOP Head can be disassembled by simply disconnecting the lower Binding Latch



**Figure 2.14- Lower Binding Latch/Head**



**Figure 2.15- Guide Pins and Anchor Stud**

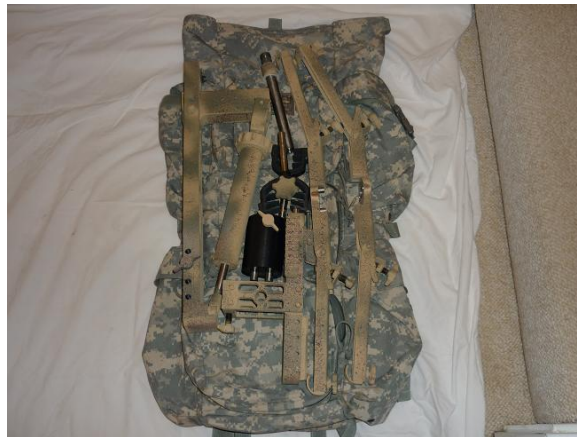
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The MODSOP can easily be deployed inside of a combat load-bearing pack currently issued to the U.S. military.



**Figure 2.16- MODSOP Disassembled**



**Figure 2.17- MODSOP Deployment Capable**

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## **ADDITIONAL INFORMATION**

The Spec-Rest™ was tested in its most current version to determine its functional abilities with several helicopters to include the Bell 407, and 206. Other platforms tested included the UH-60 Blackhawk, and whether the Spec-Rest can enhance shooter capability while flying interdiction missions in support of ground forces. Several options for rigging the Spec-rest inside of helicopters currently exist, with the most versatile method being the use of 1inch cargo ratchet straps.



**Figure 3.1- Spec-Rest rigged for helicopter operations**



**Figure 3.2- Spec-Rest rigged for helicopter operations**

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**Figure 3.3- Cargo Ratchet Straps**



**Figure 3.4- Cargo Ratchet Straps**

Remember, your Spec-Rest™ has been engineered to support multiple roles and can accommodate numerous shoulder fired weapons in various calibers up to and including anti-material rifles for special applications. With Spec-Rest™, the shooter will gain increased confidence in his/her ability to;

- Validate weapon/optics
- Diagnose existing or suspected problems
- Optimize weapon system performance
- Manage felt recoil, gaining efficiency in speed to target acquisition

At Lone Star Field Products, our goal is to deliver an instrument quality tactical weapons platform that achieves hyper-accurate results while reducing shooter fatigue during extreme conditions. We take great in pride serving our law enforcement and armed forces community with American made equipment for today's War fighter.