

# **ACTION GUN WORKS**

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## **Windage Rear Rest Instructions**

Congratulations on the purchase of your new *Dierks Industries* Adjustable Windage Rear Rest. Read these instructions carefully to become familiar with the features and how they work. These instructions explain in simple steps how to use and care for your new rest

The rest comes from the factory assembled, properly lubricated and ready to use. Once set up you will use it for your fine windage and elevation adjustments.

The two rear leveling screws are equipped with positive locking thumb screws, once you have the rest leveled on the bench tighten the thumb screws to lock in place. There is a small bronze friction button under the thumb screws, if the leveling screw or the thumb screw should be removed make sure that these buttons are installed under the thumb screws before you tighten the thumb screw or the leveling screw will be damaged. The front elevation screw is equipped with a friction lock, it is designed to create just enough friction so that the elevation screw will not free wheel under load. The amount of friction is adjusted by tightening or loosening the set screw above the hand wheel on the front of the rest. This may be adjusted to suit your taste. There is a Teflon friction button under this set screw, if the elevation screw or the set screw should be removed make sure this button is in their before re-installing, or the screw will be damaged.

The thumb screws on the bag squeeze plates should be adjusted to make the bag properly fit your guns buttstock. Do not over tighten the bag plates as this will make the stock ride up in the bag and will affect shot to shot consistency. Occasionally on higher recoiling guns your trigger hand will strike the thumb screw on the bag plate. If this happens to you there are two set screws that came with your rest, remove the thumb screw and replace it with the set screw of the proper length so it does not protrude from the bag ear. You can still make minor adjustments to the bag plate with the thumb screw on the opposite side.

### **Bag Removal Procedure**

If you need to remove the bag from the rest to change over to a different size bag or make other adjustments to the rest, do so by removing the four screws from the bag plate and the bag and squeeze plate will remove as an assembly. Lightly grease the screws before reassembly.

### **Rest Disassembly Procedure**

The slide mechanism is equipped with an anti-backlash lead screw and nuts. This assembly was properly adjusted at the factory but if it should develop backlash (backlash is when you turn the windage knob in either direction and the slide assembly does not immediately move) it can be adjusted, this procedure requires disassembly of the rest as follows.

First remove the bag plate assembly as previously described. Next turn the windage knob until the slide assembly is approximately 1/2" from the knob side of the base. Loosen the set screw on the windage knob. With a 9/16" open end wrench hold the inner thrust nut and remove the windage knob. Turn the rest over and remove the two 1/4" flat head screws from the slide retainer plate. Now you should be able to remove the slide assembly out of the top. To reassemble, make sure the thrust bearing is installed on the lead screw with a thrust washer on either side of it. Insert the slide plate into the body of the rest from the top, guiding the lead screw through the hole in the proper side (for right handed operation put through the left hole, for left handed through the right). Now install the slide retainer plate with the two 1/4" flat head

screws and tighten them down snug (do not over tighten). Slide the slide assembly back and forth, it should slide smoothly by hand pressure alone without any play. If it is too tight loosen the two flat head screws 1/8th turn and tighten the adjacent set screws, if too loose, loosen the set screws and tighten the flat head screws until just snug then retighten the set screws. Once the slide is properly adjusted it is time to install the outer thrust bearings and windage knob. install the outer thrust bearing and its washers and hold the inner thrust nut with a 9/16" open end wrench and re-install the windage knob, screw it on until it is snug, slightly pre-loading the bearings ( a little tighter than snug) then tighten the set screw.

### **Lead Screw Adjustment Procedure**

Place the slide assembly in a well padded vise with the lead screw pointing up. On the top, or bag side of the slide there are two set screws towards the center, loosen the screw closest to the center of the slide. **Note - do not loosen the set screw closest to the end of the slide.** After loosening the set screw grasp the knurled bronze nut located in the center cavity on the bottom of the slide (you may have to use pliers for this). Turn the nut while turning the lead screw by hand. When it is properly adjusted you should be able to just turn the lead screw with your fingers by the thrust nut with a fair amount of resistance, if it turns easily it will be too loose when reinstalled. While holding the knurled nut tighten the set screw on top of the bag plate. Turn the lead screw by hand to check for proper tension. This procedure may have to be repeated several times to get it just right.

This rest is designed to be as trouble free as possible and still be a precision piece of equipment. Because of the tight tolerances of this rest there is some maintenance periodically required as follows.

### **Lubrication And Maintenance**

Adjust the slide assembly over as far as it will go away from the knob. Lightly grease the inner slide rail faces (the 1/2" wide rails under the rest) use a good quality grease but do not over grease. then adjust it all the way towards the knob and grease the opposite side. **Do not grease the top or bottom of the slide rails.** Occasionally remove the slide retainer plate and lubricate the lead screw with a good quality grease. Clean the thrust bearings often. **Note - Do not use "Moly" based lubricants on the thrust bearings as it will ruin them.**

### **Cleaning**

The paint is impervious to most chemicals but will be dulled by acetone and some thinners. Clean it with any good household cleaner ex. 409, Windex, etc.

If you should have any problems please give us a call at **Action Gun Works** at (775)331-1139