



# MATRIX™

SHOOTING REST



## Assembly, Care and Usage Instructions

**Product #101-600**

**Instruction #1011616**

**STOP!**

If you have a problem with this product, **DON'T RETURN IT TO THE STORE WHERE YOU PURCHASED IT.** Contact customer service at...

**Battenfeld™**  
Technologies, Inc.

5885 West Van Horn Tavern Road / Columbia, MO 65203  
573-445-9200 / Email: [sales@battenfeldtechnologies.com](mailto:sales@battenfeldtechnologies.com)  
Or visit our website @ [www.battenfeldtechnologies.com](http://www.battenfeldtechnologies.com)

**NOT WARRANTED AGAINST MISUSE, ABUSE, OR COMMERCIAL USE.**

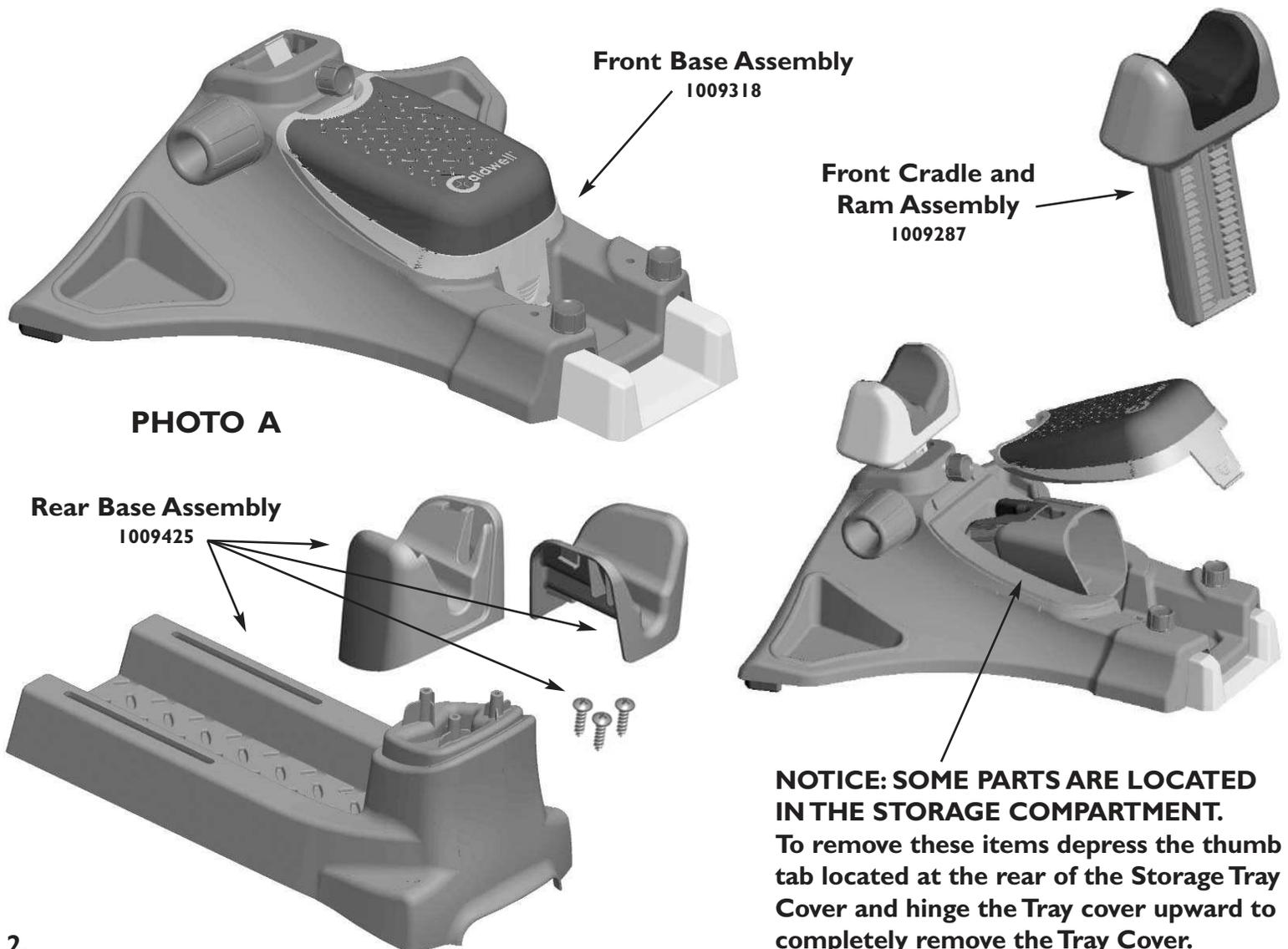
### Limited Warranty

Every Caldwell product is warranted to be free of defects in materials and workmanship for a period of one (1) year from the date of original purchase. Caldwell will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with our Instructions. This warranty does not apply to normal wear or to items whose life is dependent upon their use and care. This warranty is in lieu of all other warranties, expressed or implied and releases Caldwell, its affiliates, and its vendors from all other obligations and liabilities.

# **WARNING** IMPORTANT SAFETY INFORMATION

- Always practice safe firearm handling.
- Read all product documentation before using the Matrix shooting rest.
- Remove the firearm when making length adjustments to the rest.
- Keep these instructions for reference.
- Always remove the firearm prior to transporting the Matrix shooting rest. Failure to do so could cause injury to the shooter or damage to personal property.
- Shooting from the Matrix shooting rest requires normal shooting techniques, always support the forend and the buttstock. If these basic shooting techniques are not properly applied, failure to do so could cause injury to the shooter or damage to personal property.

Thank you for purchasing a Caldwell Matrix. The Matrix shooting rest comes to you partially assembled please take a moment to locate all of the parts before you begin, (SEE PHOTO A). Since we are always trying to improve our products, some components may vary slightly in appearance.

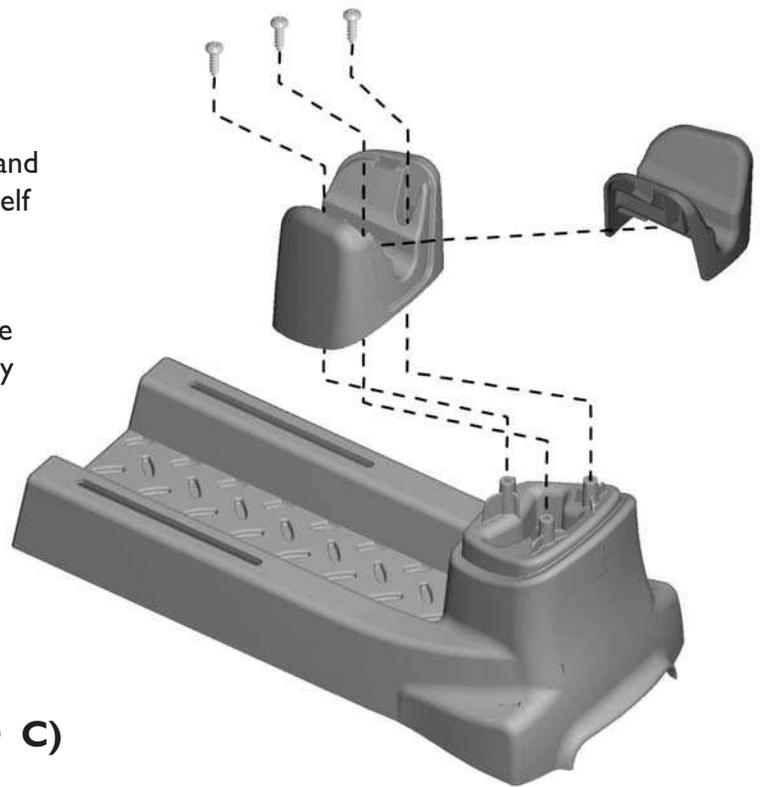


## **Rear Base Assembly (SEE PHOTO B)**

Tools required: Phillips screw driver

1. Position the Rear Cradle and Rear Base as shown below and secure using the three screws provided. The screws are self tapping and require a little force to start the threads. Be careful not to over tighten.
2. Once the Rear Cradle has been secured, carefully align the Rear Pad and snap in place. Make certain the tabs are fully engaged and locked into place and there are no gaps along the two components.

**PHOTO B**



## **Front and Rear Base Assembly (SEE PHOTO C)**

No tools required for this step

1. Remove the two Thumbscrews from the Front Base and Clamp assembly.
2. Stack the Rear Base onto the Clamp so that the Clamp holes are aligned with the two slots of the Rear Base.
3. Stack the Front Base on top of the Rear Base so that the threaded bushings of the Clamp block base can be clearly seen through the two holes of the Front Base.
4. Insert each of the Thumbscrews into the two holes of the Front Base. Choose a desired position and lock into place.

The length of the Matrix can be adjusted by simply loosening the two Thumbscrews and sliding the Rear Base in or out the desired amount and retightening the Thumbscrews.

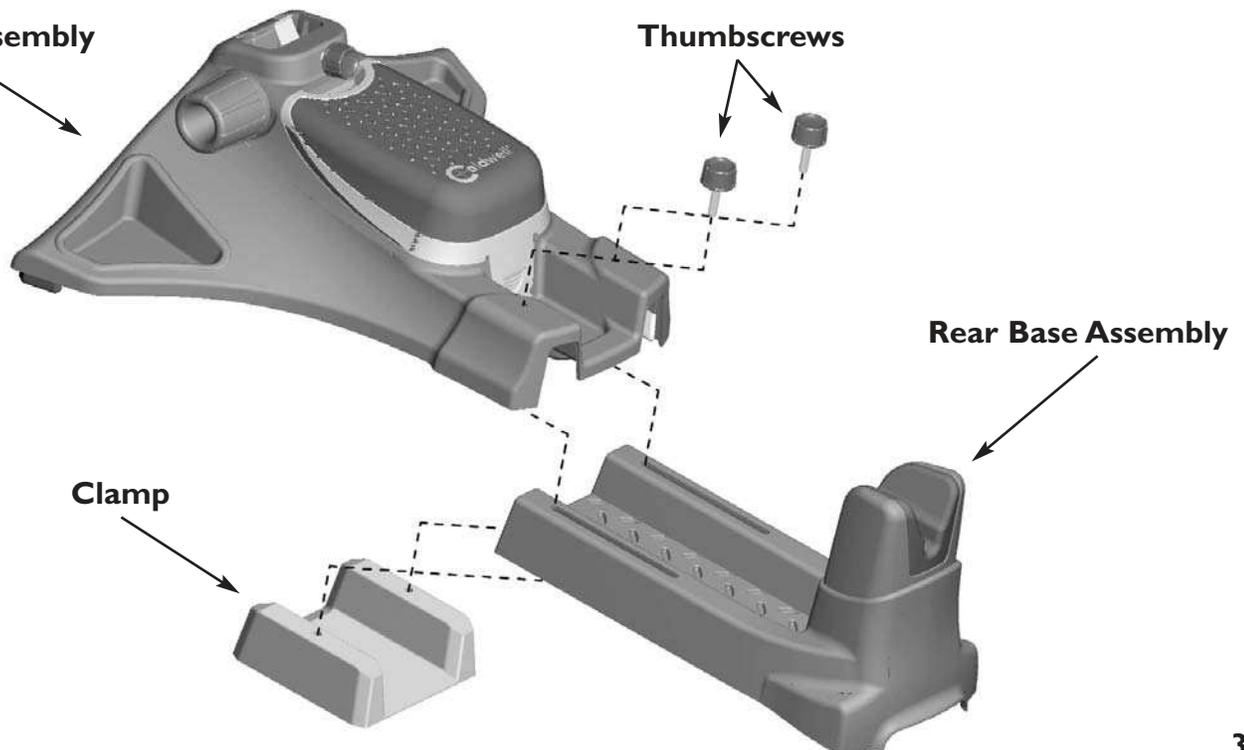
**Front Base Assembly**

**Thumbscrews**

**PHOTO C**

**Clamp**

**Rear Base Assembly**

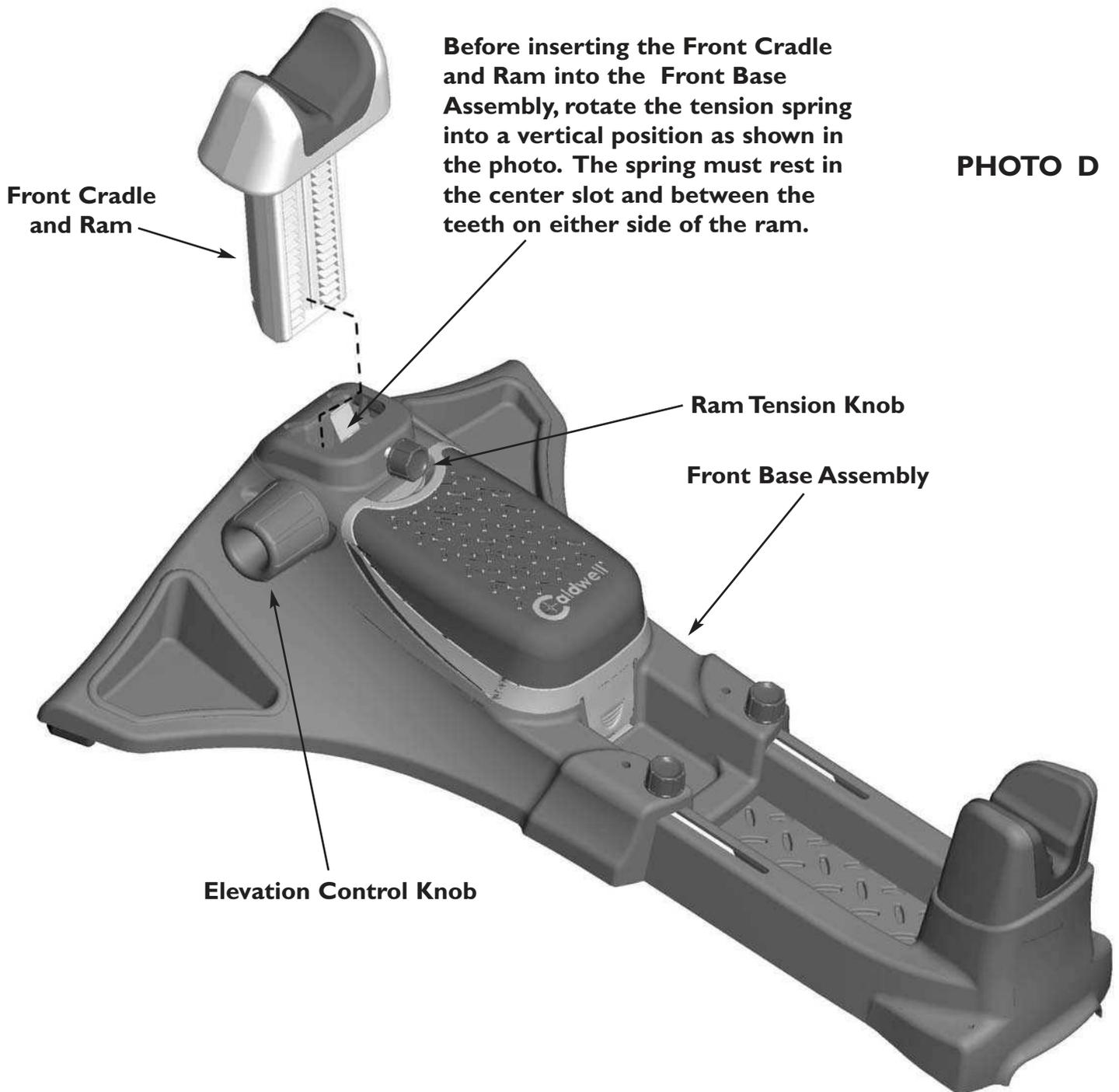


## **Ram and Base Assembly (SEE PHOTO D)**

No tools required for this step.

1. Fully loosen the Ram Tension knob (turn counter clockwise).
2. Before attempting to insert the Ram and Pad assembly into the Front Base Assembly, aim the ram teeth towards the rear of the base and rotate the tension spring to a vertical position as shown in Photo D.
3. Feed the Ram and Pad assembly into the Front Base Assembly while simultaneously turning the elevation knob. This will assist in proper tracking of the pinion gear and Ram teeth.
4. Tighten the Tension Knob to the desired level.

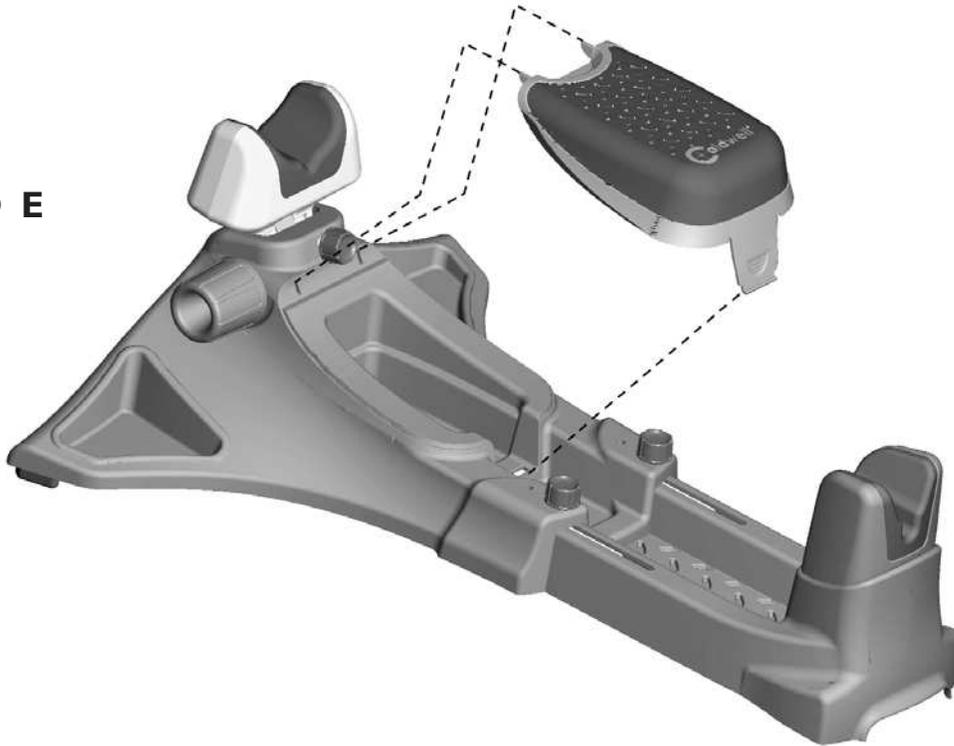
The Ram Tension Knob will provide adequate tension to support most guns while still allowing elevation adjustments with the Elevation Knob. However, it may be necessary to turn the Ram Tension Knob to full lock position for some heavy rifle and stock combinations.



## **Storage Tray Use (SEE PHOTO E)**

The convenient storage tray is an excellent place to store items such as shooting glasses and ear plugs. The Cover also serves as a comfortable platform to shoot a pistol or revolver from. It can be removed to allow additional clearance for detachable magazine rifles or lever guns.

**PHOTO E**



## **Instructions for use with a Long Gun (SEE PHOTO D)**

1. Position the assembled Matrix shooting rest on your shooting bench pointed in the direction of the target. Make sure the surface is flat and free of debris. Place the unloaded rifle onto the Matrix shooting rest, resting the forend on the Front Cradle and the butt in the rear Cradle.
2. Make necessary adjustments to align the firearm's sights with the target. Elevation adjustments are easily made with the Elevation Knob. Adjust the Ram Tension Knob so that the ram supports the weight of the gun but still allows elevation adjustments with the Elevation Knob. It is also possible to move the rifle forward or rearward allowing the angled toe line of the buttstock to help make fine elevation adjustments.
3. Position your firing shoulder solidly behind the buttstock and grasp the forend just as you would when using any shooting rest.

**NOTE: Never add weight to the rest.**

## **Instructions for use with a Hand Gun (SEE PHOTO F)**

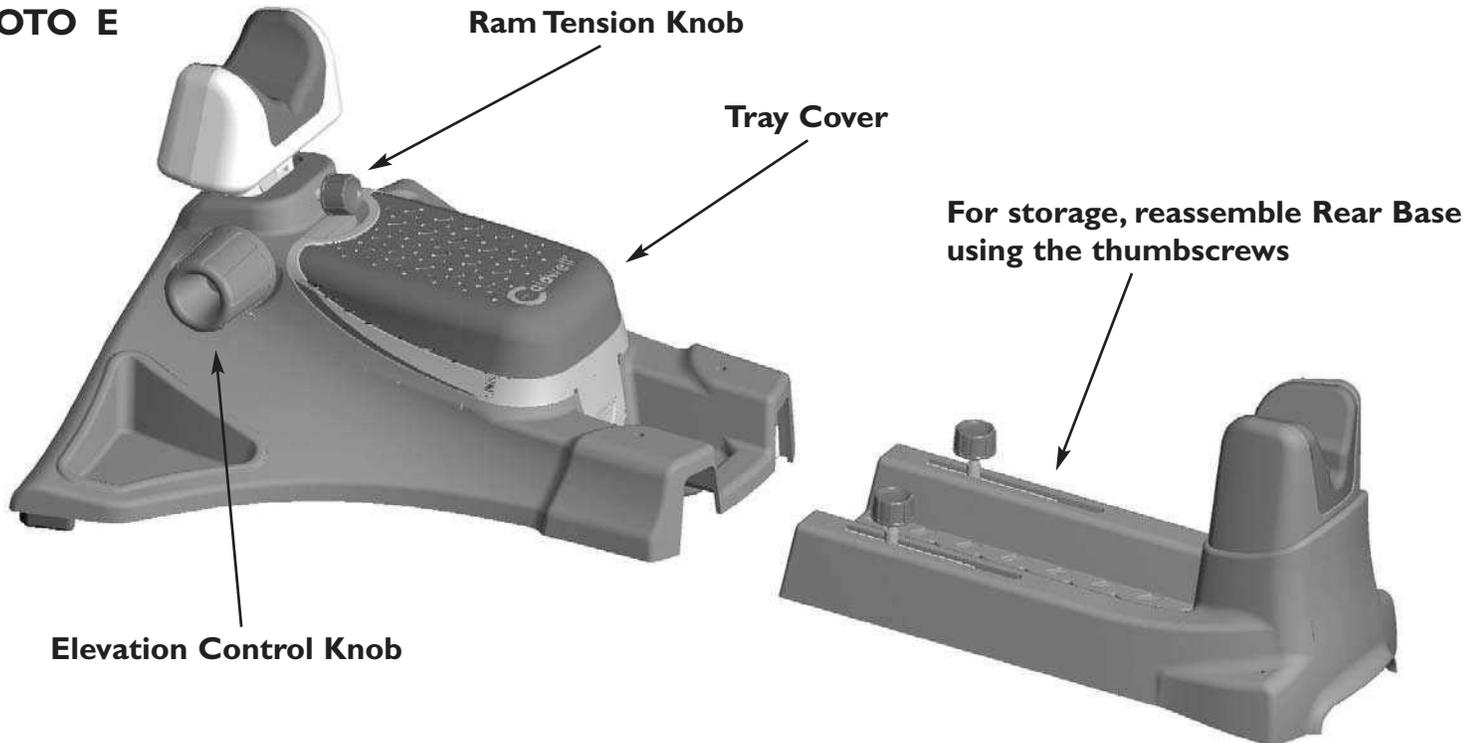
The Matrix shooting rest can easily be reconfigured for hand gun shooting. The rear of the Front Base is equipped with feet for this operation.

**Caution: To prevent injury to the shooter or damage to the rest, the muzzle must extend beyond the foremost edges of the Cradle. Failure to do so could result in injury as a result of shattered components. Some revolvers may produce cylinder flash that can discolor the rest or in extreme cases damage the rest, use caution.**

## Instructions for use with a Hand Gun, continued (SEE PHOTO F)

1. Unload the Matrix shooting rest of any fire arm.
2. Remove the two length adjustment Thumbscrews, remove the Rear Base and Clamp assemblies. Reassemble the Clamp and Rear Base components using the Thumbscrews so you don't lose any parts.
3. Place the Matrix shooting rest on your shooting bench pointed in the direction of the target. Make sure the surface is flat and free of debris.
4. Position the unloaded handgun barrel/frame onto the Front Ram assembly and while supporting the hand gun grip, allow the hand gun grip butt to rest on the Tray Cover. Make necessary elevation adjustments.

**PHOTO E**



**Note: For best results store The Matrix indoors in a clean and dry environment.**

**Visit [www.Caldwell Shooting.com](http://www.Caldwell Shooting.com) for a full line of shooting rests and accessories and other great products.**

**Need help? Call Battenfeld Technologies, Inc. at (877) 509-9160**