Caldwell® Shooting Supplies

Lead Sled® DFT™ 2

DUAL FRAME TECHNOLOGY

Assembly, Use and Care Instructions

Product #336677 **Instruction #1068318 Rev. F**

Thank you for purchasing a Caldwell® Lead Sled® DFT™ 2. The Lead Sled® DFT™ 2 comes to you partially assembled. It will require only a few minutes, using the three provided hex keys and the included wrench to fully assemble your rest.

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.

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Or vist our website @ www. BTIbrands.com

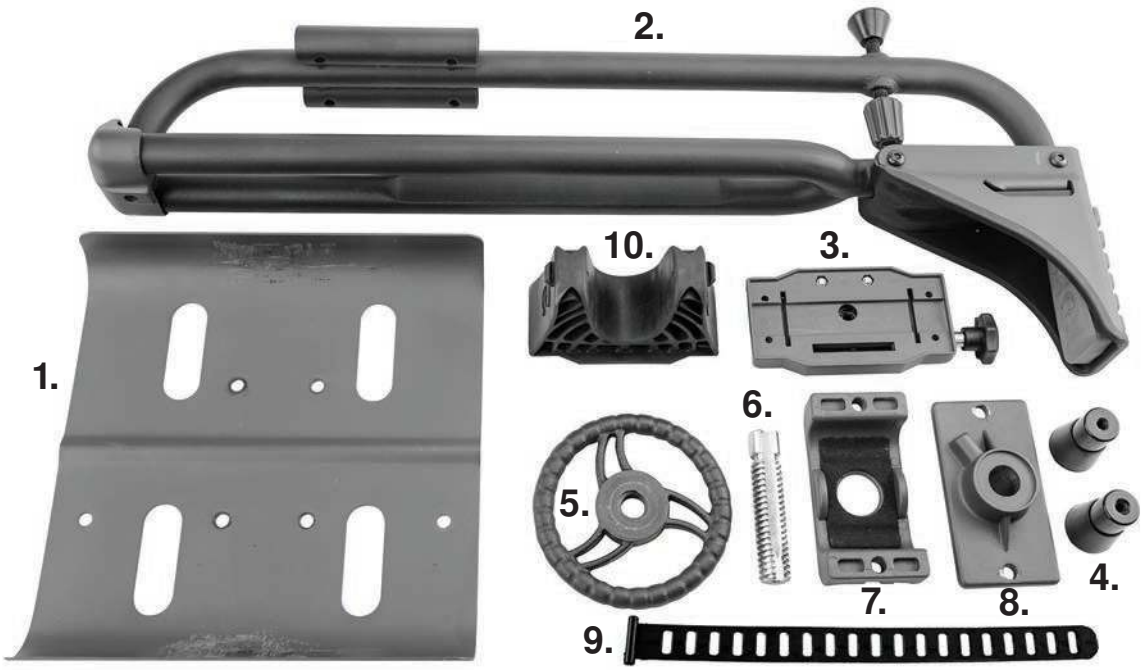
NOT WARRANTED AGAINST MISUSE, ABUSE, OR COMMERCIAL USE.

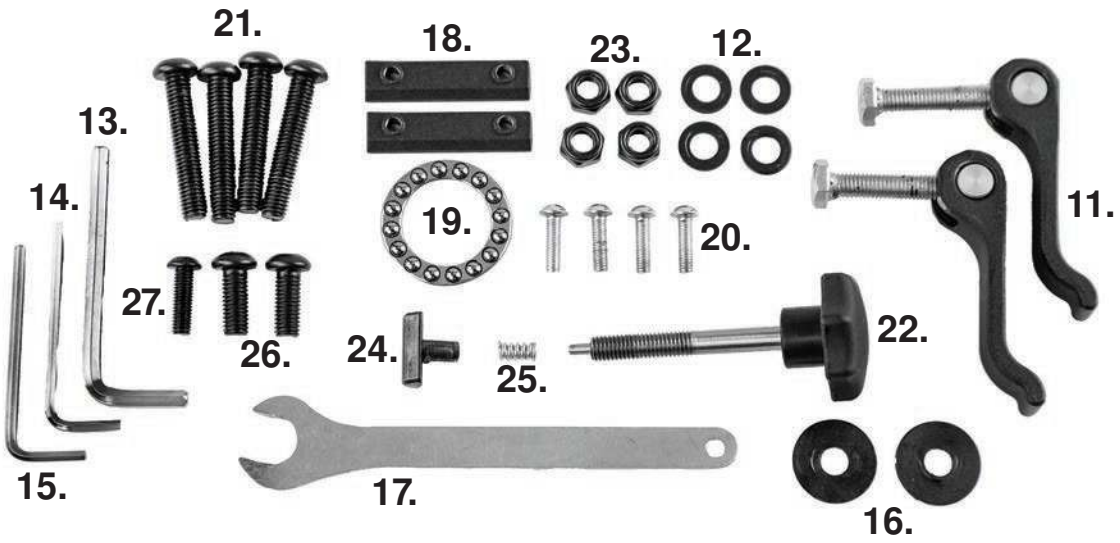
Limited Warranty

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.

ASSEMBLY INSTRUCTIONS

Please take a moment to locate all of the parts shown in this photo.
Some components may vary slightly in appearance.





1. Weight Tray #850354
2. Frame with Rear Elevation Assembly & Rear Rest #1003890
3. Windage Cradle Sub-Assembly #1057551
4. (2) Front Legs with Rubber Feet #1007004, #597586, #1005164
5. Elevation Wheel #1003296
6. Ram #1062719
7. Lower Slide Plate #1055446
8. Upper Slide Plate #1003428
9. Forend Strap #1060297
10. Front Rest (non-marring) #1058840
11. (2) Cam Lever Assembly
12. (4) 8mm Washers #1005157
13. 5mm Hex Key #1005169
14. 4mm Hex Key #1001136
15. 3mm Hex Key #1007079
16. (2) Cam Washers #845321
17. 13mm Wrench #1005170
18. (2) Front rest clamp bars #1067592
19. Steel Bearing #628620
20. (4) M5 Screws #1022577
21. (4) M8x50mm Button Head Bolt #1001843
22. Ram Lock #1064297
23. (4) M8 Nylon Lock Nuts #1003323
24. Tension Key* #1062700
25. Tension Spring* #1064321
26. (2) M8 Screws #1005164
27. (1) M6 Screw #1018925

***NOTE: For quality assurance purposes, the Upper Slide Plate(8), Lower Slide Plate(7), Ram(6), Tension Key(24), Tension Spring(25), both Cam Lever Assemby parts(11), Cam washers(16) and Ram Lock(22) are pre-assembled.**

⚠ IMPORTANT SAFETY INFORMATION ⚠

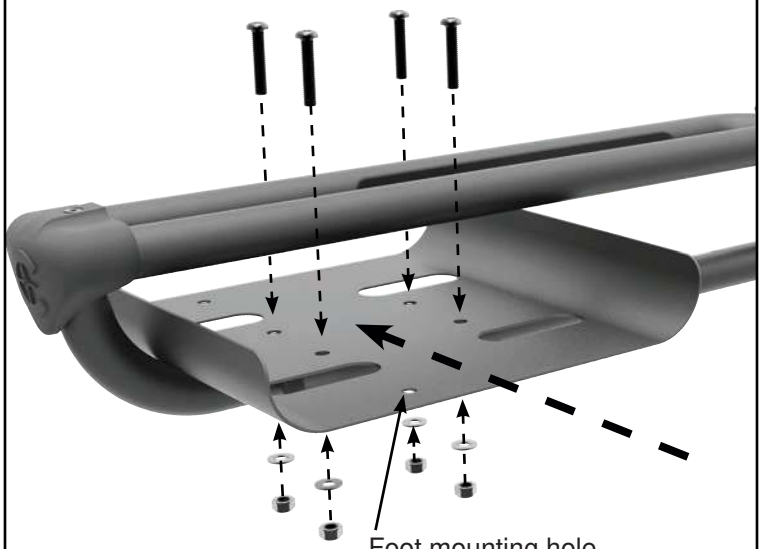
- Always practice safe firearm handling.
- Always unload and remove the firearm before attempting to add or remove weight from the weight tray.
- Do not transport the rest with weight installed. Doing so could cause the weight to fall out resulting in damage to the rest and/or injury to the user.
- Always hold the forend of the firearm when shooting off of the Lead Sled® DFT™ 2. If it is not held, the captured recoil can cause the forend of the firearm to jump out of the Front Rest possibly causing damage to the firearm or injuring the shooter.

Tray and Foot Assembly

To attach the Weight Tray to the frame:

1. Slide the **Weight Tray**(1) between the frame tubes making sure that the foot mounting holes are oriented towards the front of the rest. (Photo 3)
2. There are four mounting holes that will line up with the tray and frame. Push the **M8x50mm Button Head Bolt Screws**(26) through these holes and place a **8mm Washer**(4) and **M8 Nylon Lock Nut**(23) on the bottom of the frame.
3. Use the **5mm Hex Key**(13) and **13mm Wrench**(17) to tighten.
4. Attach the **Front Legs with Rubber Feet**(4) to the Weight Tray. The legs attach using two **M8 Screws**(26) and the **5mm Hex Key**(13). (Photo 4)

3.



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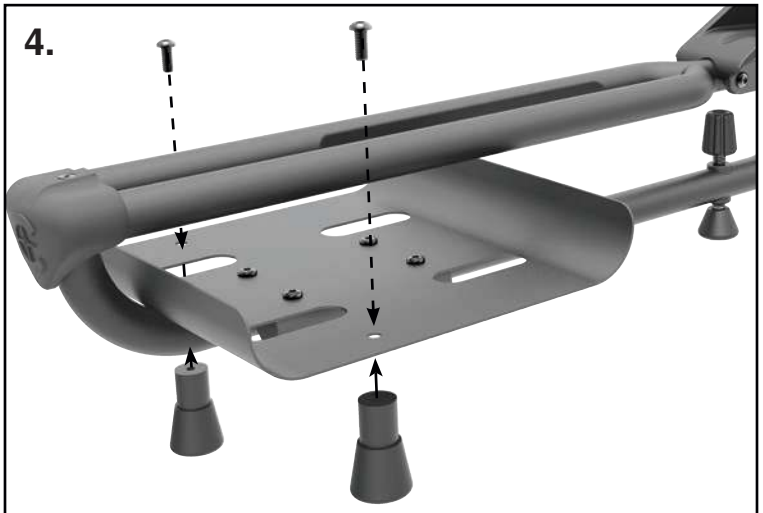


Screws may come already installed in the legs.

Front Cradle Assembly

DO NOT remove the Ram from the Upper Slide Assembly.

The Lead Sled® DFT™ 2 has a sliding cradle that accommodates a variety of different firearm lengths. To assemble, you need the pre-assembled Upper Slide Plate and Lower Slide Plate.

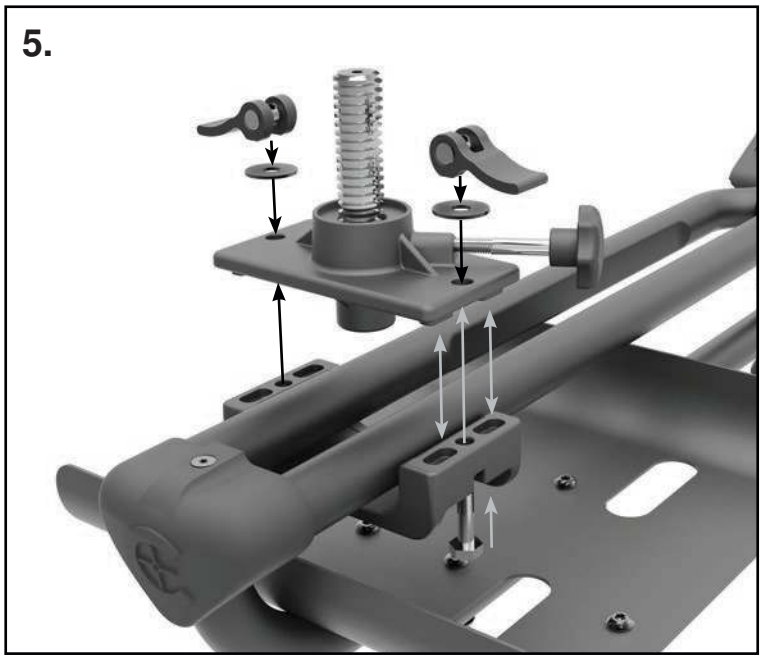
1. Remove **Cam Lever Assembly**(11) parts. and separate the **Lower Slide Plate**(7) from the **Upper Slide Plate**(8).
2. Place the Lower Slide Plate beneath the Frame Tubes.
3. Slide the two Cam Lever Bolts up through the Lower Slide Plate and place the Upper Slide Plate on top.

NOTE: The threaded hole in the upper slide plate should face left, from the shooters position. (Photo 5)

4. Place the **Cam Washers**(16) over the bolts, slide the brass bushing back into the Cam. Thread bushing onto the bolt.

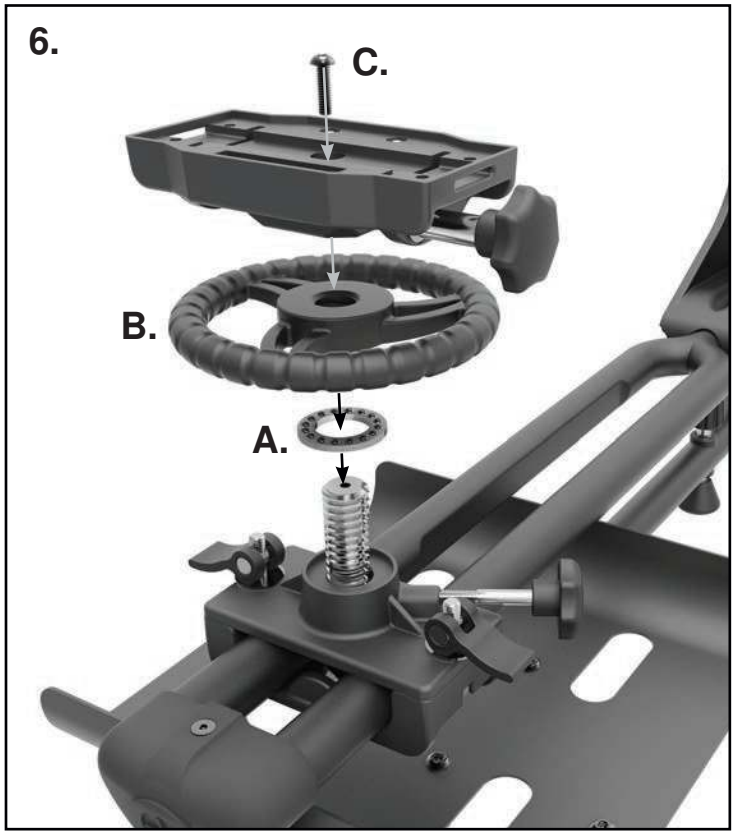
NOTE: The cradle does not need to be clamped down with significant force. With a little experimentation, you will be able to find a level of clamp force that prohibits motion along the tubes but also allows the cam levers to locate towards the outside of the sliding cradle assembly. Find this position by raising the two Cam Levers, turning them one full revolution at a time, lowering, and checking for position and tension.

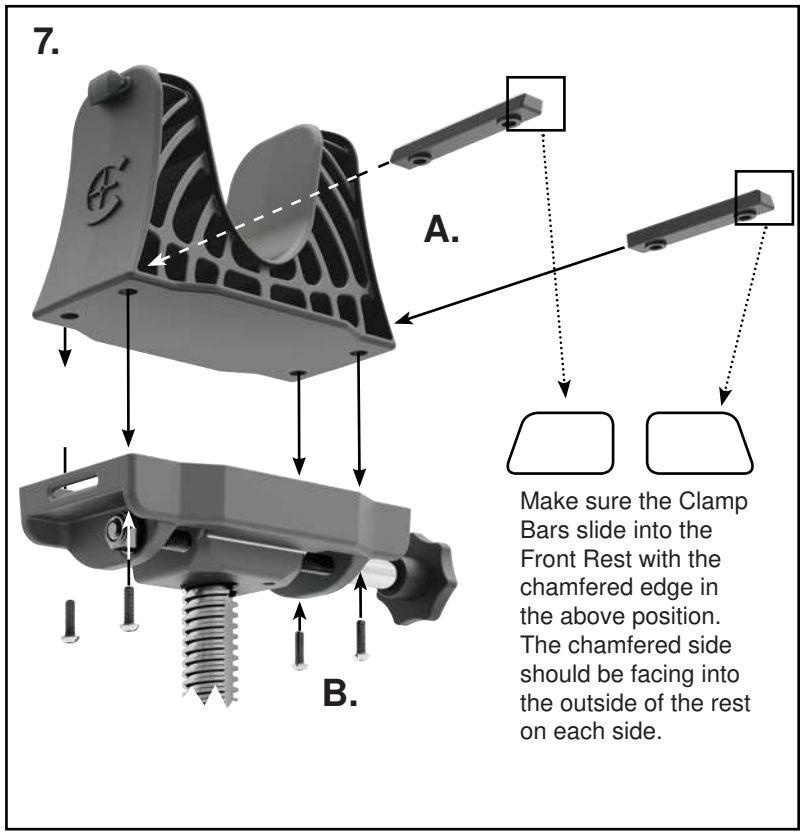
5.



Front Cradle and Elevation System

1. Slide the **Steel Bearing**(19) over the **Ram**(6) and seat on the Slide Assembly. (Photo 6, Figure A.)
2. Thread the **Elevation Wheel**(5) half way down onto the Ram. (Photo 6, Figure B.)
3. Use the **M6 Screw**(27) and the **4mm Hex Key**(14) to fasten the **Windage Cradle Sub-Assembly**(3) to the Ram. (Photo 6, Figure C.)
4. Position the **Front Rest**(10) onto the cradle plate and insert a **Front Rest Clamp Bar**(18) into each end of the Front Rest. (Photo 7, Figure A.)
5. Secure the Front Rest using the four **M5 Screws**(20) up through the assembly into the Clamp Bars. (Photo 7, Figure C.)



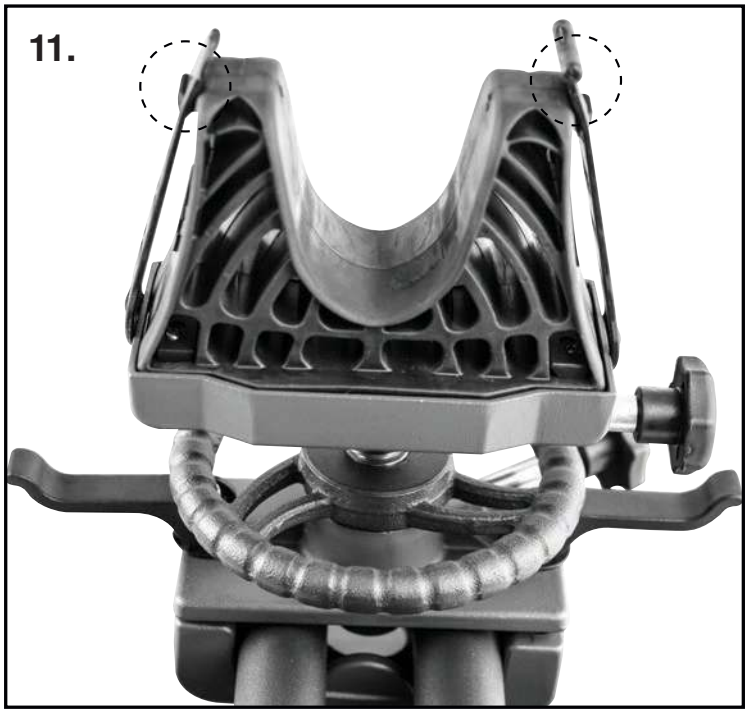


Forend Strap

1. Take the **Forend Strap**(9) and insert it into the slot on the side of the upper Front Cradle Assembly. (Photo 10)
2. Feed it through the assembly until it comes out the other side. To store the strap, hook each end of the strap to its corresponding hook near the top of the Front Rest. (Photo 11)

10.

11.



Your Lead Sled® DFT™ 2 is now assembled.
Read the usage instructions before using this product.

CARE INSTRUCTIONS

For best results store The Lead Sled® DFT™ 2 in a clean and dry environment. Periodically lubricate the threads on the Elevation Wheel, Ram and rear foot to prevent corrosion.

⚠ IMPORTANT SAFETY INFORMATION ⚠

- Always practice safe firearm handling.
- Always unload and remove the firearm before attempting to add or remove weight from the weight tray.
- Do not transport the rest with weight installed. Doing so could cause the weight to fall out resulting in damage to the rest and/or injury to the user.
- Always hold the forend of the firearm when shooting off of the Lead Sled® DFT™ 2. If it is not held, the captured recoil can cause the firearm to jump out of the Front Rest, possibly causing damage to the firearm and/or injuring the shooter.

USAGE INSTRUCTIONS

Shooting Without Weight

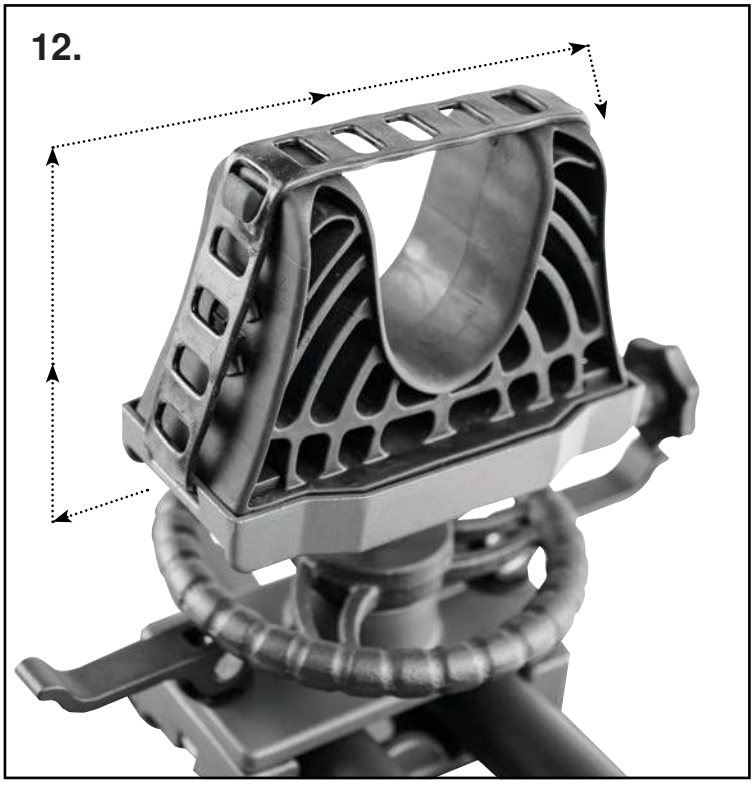
1. Position the assembled Lead Sled® DFT™ 2 on a shooting bench with the rest in the direction of the target. Make sure the surface is flat and free of debris and rigid.
2. Place the unloaded rifle or shotgun to be fired onto the Lead Sled® DFT™ 2, resting the forend on the front rest and the butt end of the stock in the specially designed rear rest.
3. Make sure that the Lead Sled® DFT™ 2 front rest sufficiently accommodates your firearm's forend.
4. Adjust or reposition the rest laterally to align the firearm's sights with the target. Adjust the height of the front rest using either the front course Elevation Wheel or the rear fine elevation adjuster.

Shooting With Weight

1. Always remove the firearm in order to load weight into the Lead Sled® DFT™ 2.
2. The tray is designed for use with 25lb bags of lead shot or the Caldwell® Weight Bags,which can be filled with sand or other media.
3. Our testing has shown that lead shot provides the most recoil reduction per pound.

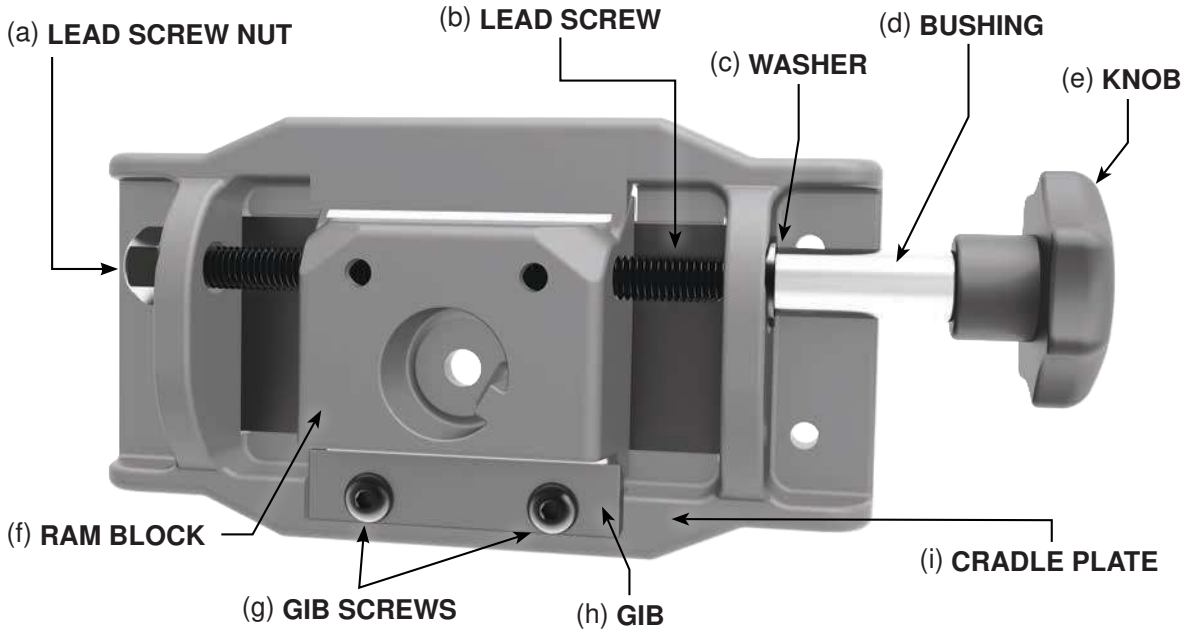
Using the Forend Strap

If desired, use the Forend Strap to help secure the forend of your firearm during use. Unlatch the Forend Strap on both ends and pull the tongue shaped end through until the strap locks into position on the Front Cradle Assembly. Pull and position the forend strap to lock in both sides of the Front Rest. (Photo 12)



Windage Cradle Adjustments

The torque required to turn the knob for the Windage Cradle system has been adjusted at the factory, but the assembly is designed to be adjustable to meet your specific preference. Before adjusting, please refer to the picture below and familiarize yourself with the components that make up the Windage Cradle Sub-Assembly.



Lead Screw Tension Adjustment

The **Lead Screw**(b), which moves the Windage Cradle plate left and right, should be adjusted to eliminate either excess backlash or unnecessary tension. Turn the **Knob**(e) two full revolutions in one direction. Then turn the Knob in the opposite direction one revolution.

- If the Knob felt like it loosened up when you turned it in the opposite direction, the Lead Screw might have excess backlash.
- If the Knob did NOT feel like it loosened when turned in the opposite direction, the Lead Screw might have unnecessary tension.

To Remove Excess Backlash

Hold the **Lead Screw Nut**(a) with a 13mm wrench (an adjustable wrench or pair of pliers will work, as well) and turn the Knob clockwise, like you are tightening it. Once you feel it get snug, loosen it one fourth of a turn (Photo 13). Remove the wrench and try turning the Knob back and forth to see if it still feels like it has a loose spot (backlash). If the Knob feels loose for more than ¼ of a revolution, tighten the Knob a little more while holding the Lead Screw Nut with a wrench or pliers. If it feels like it has less than ¼ turn of backlash, you're done!

13.

To Remove Unnecessary Tension

Hold the Lead Screw Nut with a 13mm wrench (an adjustable wrench or pair of pliers will work, as well). Turn the Knob counter-clockwise, like you are loosening it, ¼ of a revolution. Remove the wrench and try turning the Knob back and forth to see if it still feels tight when you change directions. If it still feels tight, loosen the Knob a little more while holding the Lead Screw Nut with a wrench or pliers. If it feels like it has a little bit of a loose spot before getting tight again (backlash), you're done!

NOTE: Due to manufacturing tolerances, it might not be possible to completely eliminate backlash. Up to ½ of a revolution of backlash is considered acceptable.

Ram Block Resistance Adjustment

The resistance or tension felt when turning the Knob for Windage Cradle adjustments can be adjusted to suit your specific preference.

NOTE: Lead Screw tension MUST be set according to the instructions before adjusting the **Ram Block**(f) tension.

Turn the Knob until the Ram Block is centered in the **Cradle Plate**(i). Using the supplied 3mm Hex Key, loosen both of the **Gib Screws**(g) several turns and then retighten them until they feel snug. Equally tighten both the Gib Screws with the same amount of torque. Once the Gib Screws are snug, an additional ¼-½ turn should be sufficient.

NOTE: Do not over-tighten the Gib Screws or you may permanently deform the Bearing Strips and/or the Gib(h).

Turn the Knob to test the resistance. If the resistance isn't tight enough, tighten the Gib Screws a little more and re-test. If it feels too tight, loosen the Gib Screws and re-test.

MANUFACTURER TIPS:

- Using the normal shooting position and technique, place your shoulder solidly behind the rear rest and secure the forend and grip. Pull the firearm rearward to make certain the butt is securely seated against the rear rest.
- The Ram Lock only needs to be tightened enough to keep the front support from moving.
- The Elevation Wheel will keep the front support in place and only a small amount of tension is necessary.
- While many different types of weight are acceptable, lead shot will provide the greatest recoil reduction per pound.
- To make minor elevation adjustments use the rear fine elevation adjuster located on the rear foot.