

## REVO® LOW PROFILE INSTRUCTION MANUAL



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### A. CONGRATULATIONS:

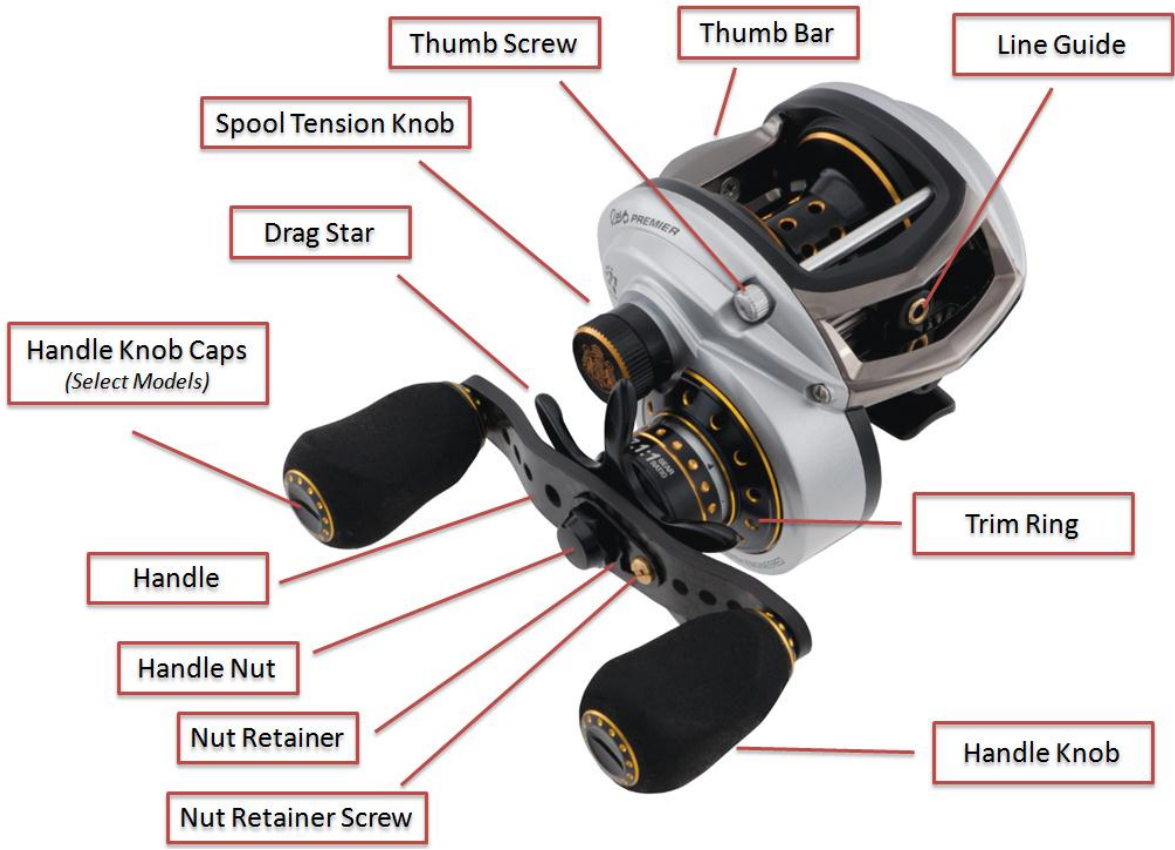
Thank you for purchasing one of the world's most advanced low profile reels. The combination of low profile design, ultra-lightweight materials and precision engineering makes Abu Garcia® THE choice for serious anglers around the globe. These reels are widely used by pros on the tournament circuit, guides, record seeking experts and anglers who demand the very best from their equipment. Rely on Abu Garcia® quality and dependability to keep the fun in fishing.

The following guide will explain how to get the most out of your new Revo® low profile reel. Each element is described by its name and function. Some features are not found on every reel model. Read these instructions carefully before using your reel to ensure a proper understanding of its operation.

### B. COMPONENTS:

Include:

Star drag	Line guide	Handle	Spool	Spool Tension Knob
Palm Sideplate	Thumbscrew	Knobs	Thumb Bar	Brake Dial
Handle Sideplate	Gear Box	Frame	Brake Dial	Handle Nut
Maintenance Port Screw	Nut Retainer Screw	Trim Ring	Handle Knob Caps	Nut Retainer



### C. **THE REVO® FAMILY OF LOW PROFILE REELS:**

Top of the line features meet cutting edge technology. The Revo® family of low profile reels includes the MGXtreme (*separate manual*), MGX (*separate manual*), Premier, STX, SX, S, Inshore, Toro™ and Winch™ series.

### D. **HOW TO FILL THE SPOOL WITH LINE**

All Revo® low profile reels are designed for monofilament, braid and fluorocarbon lines. Personal preference and fishing conditions will determine line selection. Begin by passing the line through the guide located on the front of the reel. Secure the line to the reel using the arbor knot. Control the filler spool by inserting a pencil into the spool hub. While maintaining tension on the line with your fingers, wind the reel handle and continue to fill with line to approximately 1/16" (1.5 mm) below the top of the reel spool for best results (show picture). Do not overfill. ([CLICK HERE](#) to learn how to tie the arbor knot in this video)

#### *Braided Line*

Some anglers prefer to add a monofilament backing to the reel spool before attaching braided line. This helps reduce line slip. Using the above instructions, fill the spool with enough monofilament line to cover the spool. Tie the tag end of the monofilament backing to the braided line using a uni-to-uni knot, Albright knot or equivalent. Continue to fill the spool with braid to approximately 1/16" (1.5 mm) inside the upper lip of the spool. Do not overfill. ([CLICK HERE](#) to learn how to tie the uni-to-uni knot in this video)

### E. **DRAG ADJUSTMENT**

All Revo® low profile reels deliver smooth and reliable drag tension. Control the amount of drag by turning the adjustment star inside the reel handle. Rotate the star clockwise (right) to increase drag or counterclockwise (left) to decrease drag. For best results the drag should be adjusted to approximately one-third of the breaking test of the line being used. This can be accomplished by tying the line to a spring scale for precise adjustment. Make sure the reel is first mounted on a rod and the line has been run through the rod guides before tying to the scale. The drag should always release before the line reaches its breaking point. Factors such as line type, technique and fishing conditions may require adjustment to these recommendations. Any drag setting above half of the line strength risks line breakage.

If a spring scale is unavailable, tie the line to a secure point. With the rod tip up (about a 45 degree vertical angle), apply pressure by turning the handle. Gradually tighten the drag

adjustment star by rotating it clockwise. When the line reaches its breaking point, loosen the adjustment star ¼ turn.

#### F. **SPOOL TENSION KNOB**

The spool tension knob controls how fast the spool spins when casting. It is located on the sideplate of the reel next to the handle. With the rod-reel-line-lure properly assembled, place the tip of the thumb on the line to hold the spool. Depress the thumb bar with the pad of your thumb to disengage the gears. Allow the lure to drop to the ground. If the lure does not fall when the thumb bar is depressed, turn the spool tension knob counterclockwise (left) to reduce tension on the spool. If the lure falls to the ground and the spool continues to rotate, spool tension is too loose. Rotate the knob clockwise (right) to increase tension. Additional casting brakes, if applicable, are designed for fine tune adjustment.

It is normal to experience backlashes when learning how to cast a low profile reel. In the event that you are just learning how to cast, tighten the spool tension knob an extra ¼ to ½ a turn and slowly back it off as you learn to cast.

#### G. **REMOVING THE SIDEPLATE**

Revo® reels are equipped with a removable palm sideplate that allows access to the spool and centrifugal brake system. To open the sideplate, turn the spool access thumbscrew counterclockwise until it disengages from the sideplate. After the thumbscrew has been unscrewed from the sideplate, gently pull on the thumbscrew head to slide it outward. Twist the sideplate in an upward motion until it reaches the stop position. The sideplate can now be removed.

#### H. **REEL FUNCTION**

How to Adjust the Braking System: Revo® reels feature highly tunable braking systems that deliver superior casting control. For maximum casting distance and minimal tendency of line over run, it is necessary to adjust the braking system to match the weight of the lure and angler preference. Depending on model, your reel will feature one of the following braking systems.

*([CLICK HERE](#) to learn more about Revo® braking systems)*

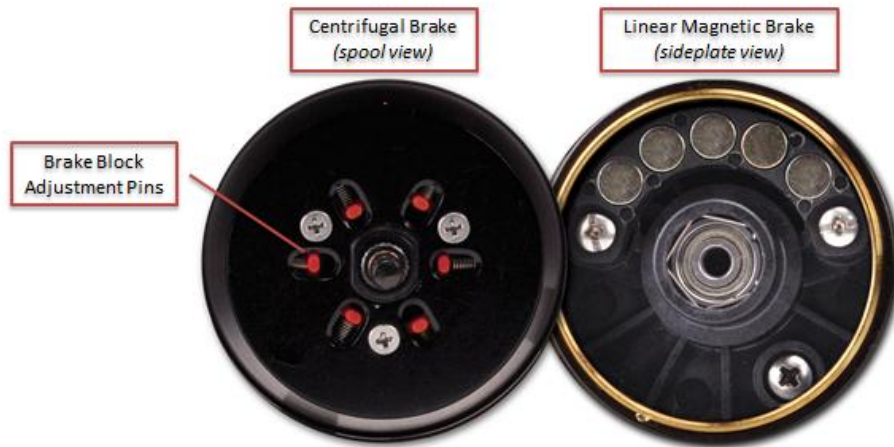
**- IVCB-IV™ Brake System (MGXtreme, MGX, Premier) –**



The *IVCB-IV™* brake system (Infinitely Variable Centrifugal Brake) delivers superior casting control using a unique four brake block configuration that works vertically instead of horizontally. This system allows anglers to use a wide range of lures and excels in the ability to throw lightweight finesse style baits - something that traditional horizontal braking systems struggle to accomplish. The *IVCB-IV™* brake is externally adjustable allowing for precision tuning on the water without having to remove the sideplate.

Turn the *IVCB-IV™* brake dial to fine tune spool tension. Rotate the dial towards the “MAX” label to increase brake pressure. By moving the brake dial to the “MAX” position, the brake blocks move out vertically, thereby applying more brake pressure. Turn the dial in the opposite direction to reduce brake pressure.

**- *Infini™* Brake System (Rocket, STX, Winch) –**



The *Infini*<sup>™</sup> brake system allows almost limitless adjustability to handle any fishing situation. It combines a sealed centrifugal brake system with the *MagTrax*<sup>™</sup> magnetic brake, giving anglers superior casting control. This is sometimes referred to as a *dual brake* system.

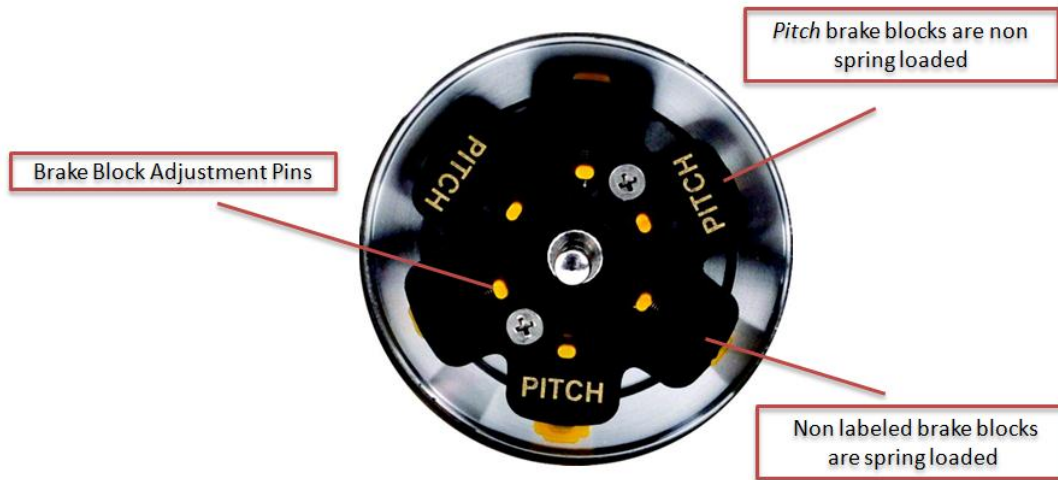
Sealed Centrifugal brake: As the spool spins, centrifugal force causes the “spring loaded” brake blocks to engage by moving away from the center of the spool. This force prevents the spool from over running at the start of the cast. The blocks retract during the second stage of the cast as the spool slows down to allow for maximum distance. Additionally, the brake blocks are sealed inside the plate which prevents them from popping off and getting lost.

Access the adjustment pins by removing the palm sideplate (see *Removing the Sideplate* instructions in section G. for details) Disengage (i.e. turn off) the centrifugal brake by sliding all pins towards the center of the spool until they click into position. The brake blocks are now locked in the *off* position and will not move out away from the center of the spool. To engage this feature (i.e. turn on the brake blocks) slide any combination of pins towards the outside of the spool until they click into place. Any combination of brake blocks can be engaged or disengaged to apply more or less brake pressure. For example, turn on all six blocks for the most pressure or turn on just one or two for less pressure and more distance. When a brake block is set in the “on” position, it will be able to move towards the outer edge of the spool.

MagTrax<sup>™</sup> brake: The addition of the *MagTrax*<sup>™</sup> magnetic brake adds consistent braking pressure throughout the entire cast resulting in smooth, controlled casts. A turn of the dial towards the “MAX” setting moves the magnetic braking system closer to the spool. As the magnets get closer to the spool, they apply more braking force and slow the rotation of the spool.

Turn the exterior *MagTrax*<sup>™</sup> brake dial to fine tune spool tension (see picture). Rotate the dial towards the “MAX” label to increase braking force or in the opposite direction to reduce braking force.

- *Pitch Centrifugal Brake System (Inshore, S) -*



The *Pitch* centrifugal brake uses six adjustable brake blocks (3 “spring loaded” and 3 “non spring loaded” – labeled “PITCH”). As the spool spins under high revolution, centrifugal force causes the spring loaded brake blocks to engage and move towards the outer edge of the spool. This force helps prevent the spool from over running at the start of the cast. The “spring loaded” brake blocks retract during the second stage of casting as the spool slows down to allow for maximum distance. When set in the “on” position, the “non spring loaded” brake blocks (labeled “PITCH”) work throughout the entire cast and do not retract as the spool slows down, allowing for maximum control.

Access the adjustable pins by rotating the thumb screw counterclockwise until it disengages from the sideplate. . After the thumbscrew has been unscrewed from the sideplate, gently pull on the spring loaded thumbscrew to disengage it from the sideplate on the opposite side. Twist the sideplate in an upward motion until it reaches the stop position. The sideplate can now be removed.

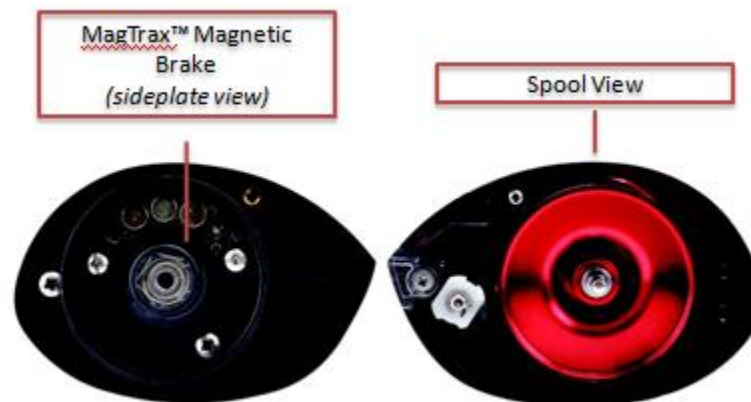
Disengage (i.e. turn off) the centrifugal brake by sliding all pins towards the center of the spool until they click into position (see picture). In this position, the brake blocks are locked in the *off* position and will not move out away from the center of the spool. To engage this feature (i.e. turn on the brake blocks) slide any combination of pins towards the outside of the spool until they click into place. Any combination of brake blocks can be engaged or disengaged to apply more or less brake pressure. For example, turn on all six blocks for the most pressure and turn on just one or two for less pressure and more distance. When a brake block is engaged (i.e. turned on) it should be able to move towards the outer edge of the spool.

### **- Sealed Centrifugal Brake System - (Toro™, Toro Winch™, Toro NaCI™)**

The *Sealed Centrifugal Brake System* uses six adjustable spring loaded brake blocks to control casting. As the spool spins, centrifugal force causes the spring loaded brake blocks to engage. This force prevents the spool from over running at the start of the cast. The blocks retract during the second stage of the cast to allow for maximum distance. Additionally, the brake blocks are sealed inside the plate which prevents them from popping off and getting lost.

Access the adjustment pins by removing the palm sideplate (see *Removing the Sideplate* instructions in section G. for details). Disengage (i.e. turn off) the centrifugal brake by sliding all pins towards the center of the spool until they click into position. The brake blocks are now locked in the *off* position and will not move out away from the center of the spool. To engage this feature (i.e. turn on the brake blocks) slide any combination of pins towards the outside of the spool until they click into place. Any combination of brake blocks can be engaged or disengaged to apply more or less brake pressure. For example, turn on all six blocks for the most pressure and turn on just one or two for less pressure and more distance. When a brake block is engaged (i.e. turned on) it should be able to move towards the outer edge of the spool.

### **- MagTrax™ Brake (SX) -**



The *MagTrax™* magnetic brake delivers consistent braking pressure throughout the entire cast resulting in smooth, controlled casts. A turn of the dial towards the “MAX” setting moves the magnetic braking system closer to the spool. As the magnets get closer to the spool, they apply more braking force and slow the rotation of the spool.

Turn the exterior *MagTrax™* brake dial to fine tune spool tension. Rotate the dial towards the “MAX” label to increase braking force or in the opposite direction to reduce braking force.



### - *Basic Casting Technique* -

a) Depress thumb bar while keeping the tip of the thumb on the spool to control the lure. Hold the rod and reel so that that handle is pointing upward.

(insert picture)

b) Holding the rod and reel in front of the body, bring the rod backward so the tip reaches a point above and behind the shoulder. To cast, bring the rod back in front of the body in a single motion without stopping

(insert picture)

c) Release the thumb from the spool as the rod is brought forward so that the lure is launched slightly upward and outward toward your target. As the lure approaches the water surface stop the spool with your thumb. If you don't stop the spool as the lure hits the water, the spool will continue to rotate causing a backlash (a.k.a *bird's nest*)

(insert picture)

In the event that you experience backlashes, tighten the spool tension knob  $\frac{1}{2}$  a turn at a time to apply more braking force until you no longer have an issue with line overrun. Also try casting *with* the wind – instead of against it – until you get comfortable casting without experiencing a backlash. As you get more comfortable casting, reduce the amount spool tension by rotating the spool tension knob  $\frac{1}{4}$  turn at a time to maximize casting distance.

## I. MAINTENANCE

As with any precision product, your Revo® reel will require regular maintenance. Gently rinse the reel with fresh water, wipe it dry and lubricate according to the accompanying diagram (picture of oil and grease points). Revo® Reels are equipped with a main gear access door called the *Maintenance Port*. This feature allows anglers to easily grease the main gear without taking the reel completely apart. To use this feature, locate the lube port screw pictured below.



Using a small philips head screwdriver, rotate the screw counterclockwise until free. The small “door” can now be removed. Lightly grease the exposed main gear with a quality grease such as [Abu Garcia Precision Grease](#). Once maintenance has been completed, reposition the door over the maintenance port and reinstall the maintenance port screw. Tighten the screw with a philips head screwdriver by rotating it clockwise. Do not over tighten.

To keep your reel working at peak efficiency, clean and lubricate after each use. At least once a season your reel should be disassembled for a thorough cleaning and re-lubrication. Refer to the exploded parts view supplied with your reel. Reel maintenance kits can be purchased at your local tackle store and include everything you need to properly service your reel. If you do not wish to perform this work yourself any nearby [Abu Garcia Service Center](#) is fully qualified to do this for you.

#### J. **REVO® SHOP ACCESSORIES**

Want to customize your new Revo®? We offer an assortment of aftermarket parts designed to make your Revo® work better for your needs. For more details, please visit the [Revo® Shop](#) section of our website.

#### K. **LIMITED WARRANTY**

##### **ONE YEAR LIMITED WARRANTY** (FOR USA AND CANADA ONLY)

This "limited warranty" has been drafted to comply with the Magnuson-Moss Warranty Federal Trade Commission Improvement Act which is effective for goods manufactured on or after

December 31, 1976. For the period indicated, Abu Garcia will, at its option, repair or replace and return the covered items found to be defective in material or workmanship at no charge except for shipping cost. Abu Garcia will have no other obligation and will not be liable for incidental or consequential damages. Abu Garcia makes no implied warranty of merchantability or fitness for any period beyond the stated duration of each Limited Warranty. This Warranty does not cover damage by addition or alteration of the product, accidental damage or loss, abuse, failure to provide reasonable and necessary maintenance or normal expected wear. Damage that is determined to be of this nature will be repaired at consumer's expense. This Warranty does not extend to products which are put to commercial or rental use.

This Warranty extends only to the original purchaser of the reel, and does not give any rights to any other person. Some states do not allow exclusions of incidental or consequential damages or limitations of the duration implied warranties, so the above exclusion and limitation may not apply to you. This Warranty gives you specific legal rights and you may have other rights which vary from state to state. Do not send cash or checks to cover the cost of repair for products on which the Limited Warranty period has expired. Abu Garcia's Authorized Repair Centers will notify you of the amount due, including handling and shipping charges. Wholesalers and dealers (unless an Abu Garcia Authorized Center) are not authorized to make in-warranty repairs or adjustments on behalf of Abu Garcia. The terms of the Warranty cannot be changed except in writing by an officer of Abu Garcia. **Abu Garcia rods or reels requiring warranty repair should NOT be returned to the store of purchase.**

For information on where to send your products for service, [Click Here.](#)