

INTRODUCTION

Congratulations on the purchase of your new PENN reel. Each PENN reel is constructed using only the highest quality components, tapping into PENN's 75-plus years of reel building experience.

Some features found on the PENN Reels are highlighted throughout this manual. Also found in this manual are tips for basic maintenance and upkeep of your new fishing reel. On behalf of the entire company, PENN would like to thank you for the purchase of our quality fishing reel.

WARRANTY AND NON-WARRANTY SERVICE

For non-warranty service to your PENN reel, simply return the reel with a brief note describing the service you want performed. Available on the PENN website (www.pennreels.com) is a repair form that we suggest is completed and returned with each reel for more efficient processing. PENN strives to complete all repairs in a timely manner.

PENN will not initiate service until a means of payment is arranged. Accepted means of payment include only the following credit cards: Mastercard, Visa, American Express, and Discover. COD, personal checks, or cash are not accepted.

Please visit our website www.pennreels.com for warranty information

PENN Fishing Tackle Mfg. Co.,
Philadelphia, PA U.S.A.
www.pennreels.com
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HOW TO ORDER PENN REEL PARTS

1. Call the PENN Parts Department at (800) 892-5444 between 8:30 am and 4:30 pm U.S. East Coast time to order your PENN Parts over the telephone. Accepted means of payment include only the following credit cards: Mastercard, Visa, American Express, and Discover. COD, personal checks, or cash are not accepted.

2. PENN Parts may also be ordered through PENN's local dealer network. Check your telephone directory for a PENN Dealer near you, or visit PENN's website at www.pennreels.com to locate a nearby dealer.

PENN Fishing Tackle Mfg. Co. reserves the right to discontinue models and make changes in design specifications without notice. PENN's policy of ongoing research may necessitate design changes for Product performance improvement.

**Order Parts Online! ~ We ship to entire USA
and some International locations**

www.PENNparts.com

CARE AND LUBRICATION

Your PENN Reel is quality manufactured for maximum durability. Like any other precision-made piece of equipment, reasonable care will ensure peak performance and longevity.

After each fishing trip, the reel should be cleaned with a soap solution and fresh water, preferably warm, to remove any accumulated salt deposits.

When washing the reel, use caution not to use a driving force of water, since the water pressure will force salt deposits and/or sand into the reel. A very fine spray will help dissolve the salt on the external parts of the reel and rinse from the reel. Always engage the lever to "Strike" drag when rinsing off. This will keep water out of the drag system. Back lever off to "Free" after cleaning for storage.

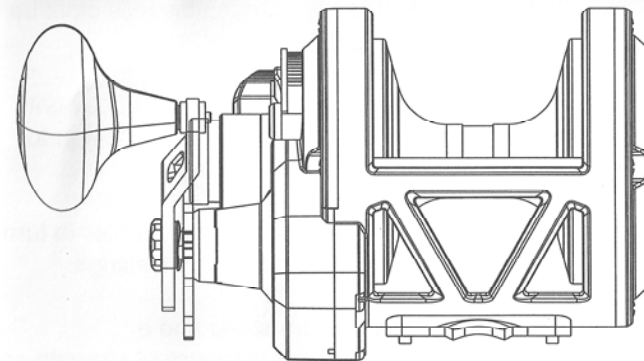
Dry excess moisture from the reel and then sparingly lubricate all exposed areas. A good practice is to spray a rag with a pressurized spray lubricant and wipe down the reels with the rag. Your reel should be stored in a cool, dry place. Do not store in a plastic bag, as condensation may develop.

Periodically examine your reel and tighten loose screws and fittings. Depending upon use, your reel should be overhauled at least once every season.

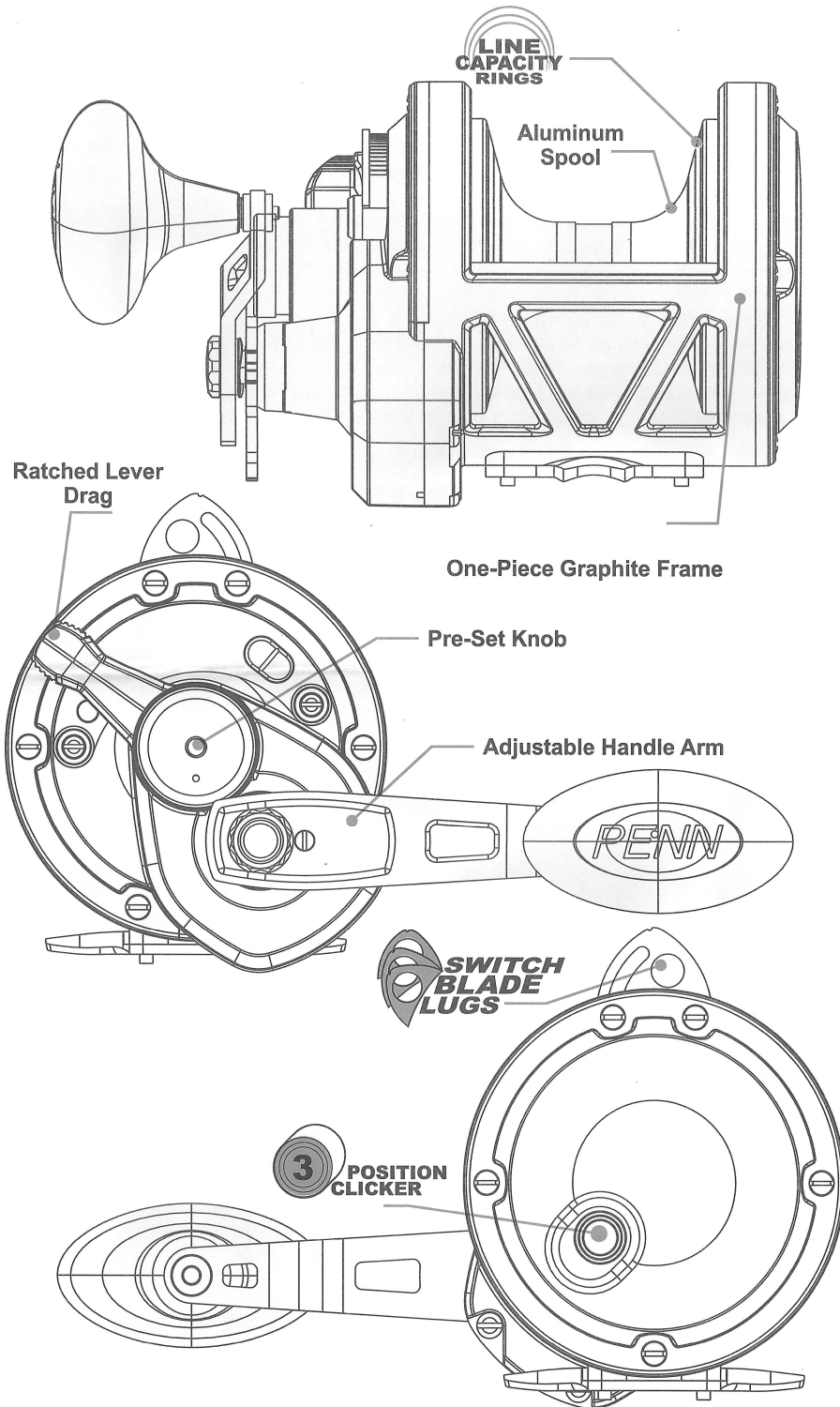
Frictional points in the reel should be frequently lubricated, and for best results use PENN lubricant. PENN's lube is the right formula, designed specifically for PENN Reels. Keep in mind, that a few drops of oil is usually sufficient

Major points for external lubrication include: Handle knob, Switchblade Lugs and clicker button.

SQUALL™ LEVER DRAG REELS



REEL SET UP



Loading Line

First mount your reel to your rod and attach rod clamp hardware. Insert the round heads of the rod clamp screws into the "key way" shaped cutouts in the stand then move the screws outward until the flats on the screws key with the flats notched into the stand. The hex nuts should be threaded onto the clamp screw to hold the screw in place on the stand. Next assemble the clamp and the clamp nuts. Tighten them snugly but do not over tighten.

You can use any type or combination of line on your reel. Line capacity will vary depending on factors including line type, line brand, how tightly the line is wound onto the reel, and how full the spool is filled. Filling the spool to within 1/8 inch of the edge of the spool flange will allow for maximum capacity, but keeping line at least 1/4 inch from the edge of the spool will prevent line from rubbing on the frame of the reel if it is not wound evenly on the spool, as often happens when fighting a fish.

How you tie the line on to your spool is a matter of personal preference, but it is important to anchor the line on the spool pin to prevent line from slipping on the arbor when winding line or fighting a large fish. Be sure the line goes on to your reel in the same direction (rotation) that it comes off the bulk spool, doing this will help prevent twists. Load the line with plenty of tension when winding on line to pack the spool hard. Crisscrossing the line every few layers is advised to keep the line from "burying" itself under the force of a big fish.

Pre-setting Drag

The preset knob should be adjusted so that the drag will slip when the line is pulled with a force equal to 1/4 to 1/3 of the breaking strength of the line you spool the reel with. This lower setting builds in a good safety margin in case there are any weak links in your line or terminal tackle. Nicks, frays, general line wear and even knots can reduce the line's strength. Also, additional load is placed on the line as it is pulled through the water by a large fish.

Working as a complement to the preset drag is the drag lever control. The higher you push the lever, the more drag force you add. The preset is adjusted to yield the desired "Strike" drag setting, but you can increase or decrease drag force by pushing forward or pulling back on the lever. The quadrant on the lever drag reel features an adjustment from free (no drag force) to strike (where you strike and fight the fish) to full drag, which gives you a bit more drag force when you need it. You should use full drag conservatively, like a reserve. You can move the lever up to "Full" for slowing down a truly large fish at the beginning of its run, or at the end of a fight, when you are up to the leader or hauling in dead weight. Never use the full drag when you are more than half spooled – if anything, back off on the drag, since a smaller diameter of line left on the spool translates into greater line force and backing off is your way of compensating for this law of physics.

Always pre-set the drag with the lever in the "Strike" position, but remember to back the lever down to the "Free" position before turning the preset knob; this will provide the most accurate and consistent pre-setting of the drag. If you turn the preset knob when the drag is in the strike or full position, or anywhere along the quadrant but the free position, you may damage some components in the drag system.

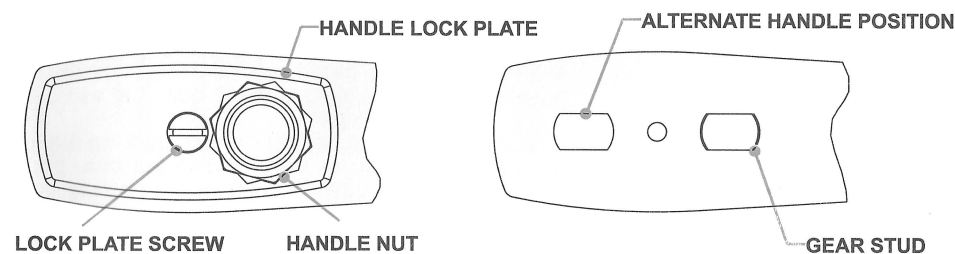
When pre-setting the drag using a scale, rather than pointing the rod at the scale and pulling line directly from the reel, pull line from the rod tip, keeping the rod in a 10 or 11 o'clock fighting position, as if you have a fish on. When your spool starts to slip and yield line, check the reading on the scale. If the scale measures less than your desired preset setting, turn the preset knob clockwise and measure the drag again. If the scale measures more than your desired preset setting turn the preset knob counter-clockwise and measure the drag again. Repeat until the desired drag preset is achieved. Pre-setting the drag on your reel is a trial-and-error process, but it is the most necessary step to enjoy the full potential of your reel.

FEATURES

- 1. One-Piece Frame.** Graphite composite construction creates a unified frame that is not only light, but incredibly strong. The open top design allows for easy access to the spool for ease of castability.
- 2. Gearing.** Precision machined stainless steel main gear and pinion gears create an incredibly strong gearing system built for years of service and performance.
- 3. Aluminum Spool.** The aluminum spool is lightweight and strong, and the anodized finish provides the ultimate in corrosion resistance for season after season of hard fishing.
- 4. Line Capacity Rings.** Flanges of the spool are machined and anodized with 3 lines indicating approximate spool capacities of 1/3, 2/3 and full.
- 5. Lever Drag.** A 120 degree arc lever drag provides a wide range of various drag pressures, from no drag pressure in the "free" position, to fighting drag in the "strike" position, to maximum drag in the "full" position. Reels should always be stored in the "free" position to relieve any unnecessary pressure on the internal components during storage.
- 6. Pre-set adjustment knob.** This knob allows you to preset your drag, turn clockwise for more drag, and counter clockwise for less drag. When adjusting the preset knob, always make sure the lever is in the "free" position; this will avoid any undue stress on the internal components.
- 7. Handle.** The Soft-Grip handle provides a secure grip, even when hands are wet. Convertible to the extended length for power, or shorten the handle for speed. Shipped from factory in the "speed" position.
- 8. Stainless Steel Ball Bearings.** High-quality, shielded, stainless steel ball bearings are incorporated into the Squall series reels. Unlike gimmicky, unshielded bearings that clog with contaminants and salt buildup, PENN's high grade stainless steel ball bearings were designed for performance in a marine environment.
- 9. Switchblade Folding Harness Lug.** Harness lugs are folded out of the way until they are needed. Exposed notches allow them to be folded up for strapping in to fight fish with the aide of a harness.
- 10. 3-Position Click Warning Device.** Push click button away from reel center to turn off. Push progressively button toward reel center for light and heavy settings.
- 11. Stand and Rod Clamp.** Light Weight, anodized aluminum stand and a molded-graphite, one-piece rod clamp combine for an extra measure of strength and security of joining reel to rod.

HANDLE LENGTH ADJUSTMENT INSTRUCTIONS

The length of the Squall Star Drag handle can be adjusted in order to vary the amount of torque that can be applied to the reel. The longer handle position will reduce the force needed to turn the handle, but will reduce the speed that the handle can be turned. To change the handle position first remove the lock plate screw and then the handle lock plate. Next remove the handle nut and shift the gear stud to the alternate position in the handle blank. Replace the handle nut and tighten until is snug on the handle blank. Be sure that the threads are aligned by checking that the nut is straight, as it is easy to misalign them because the stud threads are interrupted by flats. Check the orientation of the handle lock screw holes in the handle and lock plate and tighten the handle nut as needed to align the two holes. Be careful not to overtighten the handle nut. Replace the lock plate screw.



DURA DRAG™

PENN has spent several years developing its new drag material: a drag material so revolutionary that it has quickly earned the respect of anglers worldwide. PENN Dura Drag dramatically improves the performance of our reels, significantly extends the lifespan of the drag, and virtually eliminates hesitations and jerky drags. The new PENN Dura Drag has once again raised the bar for performance, reliability, and durability.

Developed in a joint effort between PENN engineers and a leading U.S. auto manufacturer supplier, PENN Dura Drag is based on the same material used in the transmissions of the Automotive Industry. This material is manufactured in a facility that has been awarded QS-9000 compliancy, among the highest quality standards in the automotive industry. Dura Drag is the tough and durable, endures frequent and heavy use, and withstands the high levels of heat generated during prolonged big game battles.

