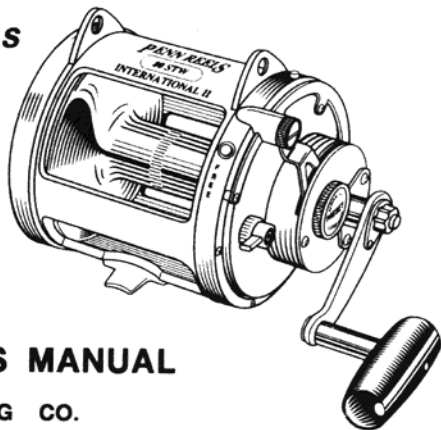




PENN[®]

INTERNATIONAL[®] II **TWO-SPEED, LEVER DRAG REELS**

LUXURY TOURNAMENT
BIG GAME FISHING REELS



INSTRUCTION AND PARTS MANUAL

PENN FISHING TACKLE MFG CO.

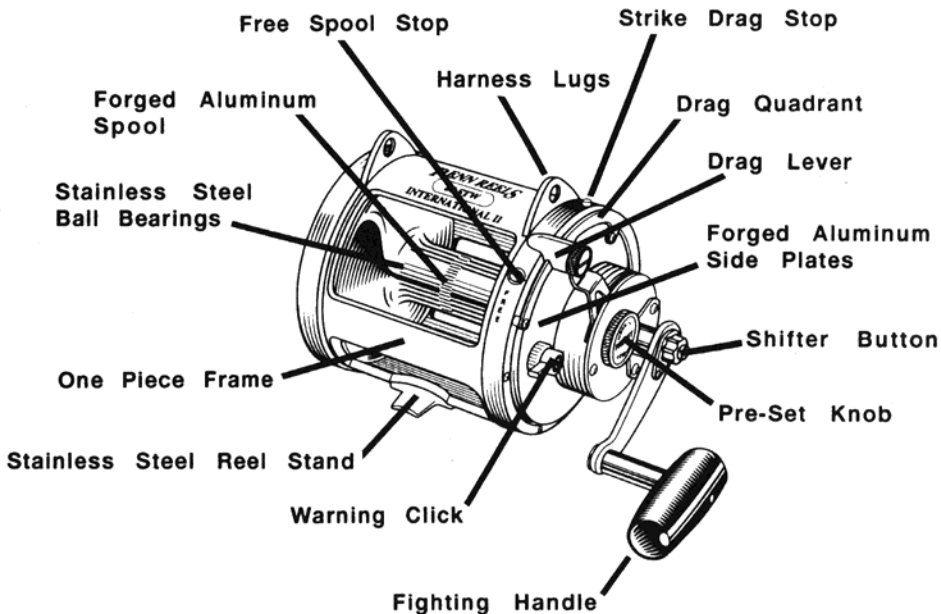
MADE IN U.S.A.

Congratulations! You have purchased the finest big game fishing reel ever manufactured by Penn.

Penn's International® II Two-Speed models are built with pride in the U.S.A. by meticulous craftsmen who know how punishing big game fishing can be. Their dedication to excellence in fishing reels is your assurance that all will go well with your Two-Speed when that truly immense fish of a lifetime comes up on your bait.

The Two-Speed advantage is deadly on fish. There are countless situations in which you can put the Two-Speed advantage to work for you. Suppose you're trolling and get a strike on your International® II Two-Speed® reel. It's a tuna, and you've got the arduous chore of pumping and winching him back up to the surface. You gear down to low and start working the fish up. The low gear ratio gives you the power when you need it. Then suppose the fish, for whatever reason fish do what they do, charges and runs towards you, creating slack in the line and an increased opportunity to throw the hook. You've got to get that slack up fast. That's easy – just shift into the high gear ratio and in no time you've caught up to the fish. Or suppose you're backing down on a billfish and you need speed – shift into high.

Examples of using the high or low gear could go on and on, but simply put, you would use high gear when you need speed. Conversely, you would need low speed when speed is of no concern, but putting pressure on the fish is.



MODEL	LINE CAPACITY (YARDS/LB. TEST) (METERS/MM)	GEAR RATIO		WEIGHT (OZ.) (GRAMS)
		HIGH	LOW	
130ST	<u>950/130</u>	<u>2.2-1</u>	<u>195</u>	
	870/1.25	1.2-1	5520	
80STW	<u>950/80</u>	<u>3-1</u>	<u>118</u>	
	870/0.90	1.4-1	3350	
80ST	<u>750/80</u>	<u>3-1</u>	<u>112</u>	
	685/0.90	1.4-1	3180	
50SW	<u>850/50</u>	<u>3.1-1</u>	<u>68</u>	
	780/0.70	1.3-1	1930	
50S	<u>550/50</u>	<u>3.1-1</u>	<u>67</u>	
	505/0/70	1.3-1	1900	
30SW	<u>900/30</u>	<u>3.8-1</u>	<u>63</u>	
	825/0.55	1.8-1	1790	
30S	<u>700/30</u>	<u>3.8-1</u>	<u>59</u>	
	640/0.55	1.8-1	1670	
16S	<u>1000/16</u>	<u>4.5-1</u>	<u>42</u>	
	900/0.40	2-1	1170	

Even though they are precision instruments, Penn's International® II Two-Speed reels are relatively simple to operate. Take a few moments to familiarize yourself with the operating controls listed below before using your International® II Two-Speed.

DRAG LEVER. Provides 120 degrees of drag adjustment, from free, with no drag pressure, to strike, where you strike and fight the fish, to full, which provides an extra few pounds of drag pressure when you need it. "Free" and "Strike" buttons allow quick, easy reference along the quadrant.

PRE-SET KNOB. Turn clockwise for more drag pressure, counter-clockwise for less drag pressure. Always turn pre-set knob with drag lever in free position.

On the 130ST, the pre-set knob features a spring-loaded lock/release feature. This prevents accidental or casual tampering with your pre-set drag setting. To adjust pre-set, depress pre-set release button, and keeping depressed, move pre-set knob in "More" or "Less" direction. Once drag is pre-set, you will not be able to move pre-set knob far before release button locks pre-set knob.

SHIFTER BUTTON. Push button and handle in for low gear. Push button and pull handle out for high gear. Red groove on the gear stud signifies high gear, no red groove means you are in low gear.

PENN FIGHTING HANDLE. Handle knob on most models is balanced so it automatically returns to a vertical position, the best position for fast, easy gripping. This feature really comes in handy for blind strikes and when fishing action gets hot. You always know right where the handle will be, so you won't lose precious seconds fumbling around for the handle. The light tackle 16S features a comfortable torpedo-shaped knob, and the massive 130ST features an oversized anodized aluminum barrel-shaped knob.

WARNING CLICK. When turned on, acts as an alarm when line is pulled from the reel.

The click also provides enough tension on the spool to keep it from revolving too easily or overrunning. Remember, use the warning click only as a signal. Constant fishing with the click on will lead to premature wear of the click mechanism – plus it marks you as an amateur!

To turn warning click on, push button into the on position. To turn click off, push until it snaps into the off position.

The 80ST and 80STW International® reels feature a new exclusive warning click. Now you can adjust click tension to suit your style of fishing.

If you need a louder click with more tension (as in trolling), turn the knurled knob underneath the click button clockwise. Set to desired level of tension and noise. Heavier settings will let you hear the click better and will minimize any overruns.

When you need a softer click with less tension (as in "chunking" or drifting), turn knurled knob counter-clockwise. Set to desired level of softness. Lighter settings will minimize chances of fish feeling resistance after they pick up the bait.

The warning click button still operates in its normal on/off fashion, as detailed above.

ONE PIECE FRAME. An extruded aluminum tube is first cut, machined and finally gold anodized to a durable, lustrous sheen, not only for good looks but also for good measure against abusive saltwater elements. One piece tubular frame construction is Penn's ultimate answer to any question of the frame twisting or torquing under the pressure and power of a thrashing, angry, half-ton tuna or marlin.

FORGED ALUMINUM SPOOL AND SIDE PLATES. Penn's International® II Two-Speed® spools are forged, machined and gold anodized for the utmost strength and resistance to corrosion. Side plates are also forged and gold anodized, for superior strength and durability.

The International® II Two-Speed 16S, 30SW, 50S and 50SW now feature a one piece right side plate, which combines both bridge and side plate assemblies. This design allows extra strength in the right plate assembly and also eliminates any corrosion build-up between the bridge and the right side plate assemblies.

The International® II Two-Speed 80ST and 80STW feature front rod brace assemblies for extra rigidity and support. These braces are essential when "pumping" on a big fish to gain line. The 130ST, biggest International® II Two-Speed of them all, features front **and** rear rod brace assemblies.

STAINLESS STEEL GEARS. International® II Two-Speed reels contain specially tempered (hardened) stainless steel gears. Gears are the guts of any fishing reel, but especially so with lever drag reels. Penn's one piece pinion and main gears in the International® II Two-Speed reels are likely to never fail.

STAINLESS STEEL REEL STAND. A stainless steel reel stand screws right into the frame and allows the rod clamp system to become an integral part of the reel stand and frame. It all adds up to the surest, strongest and most secure connection of reel to rod.

STAINLESS STEEL BALL BEARINGS. All International® II Two-Speed models feature four sealed stainless steel ball bearings of the highest quality for smooth free spooling and retrieves.

INTERNATIONAL® DRAG. A strong, dependable drag system ranks right up there along with capacity when considering a big game lever drag reel. Penn's International® II Two-Speed drag system features Penn's exclusive HT100™ drag material, proven as

the smoothest, most durable, most contaminant-resistant drag material yet. Even soaked in salt water, HT100™ performs flawlessly and holds a wide range of settings. This is the same material used to brake and stop supersonic jet aircraft.

The International® II Two-Speed 16S and 30SW feature a powerful bonded HT100™ disc drag system. The International® II Two-Speed 50S, 50SW, 80ST, 80STW and 130ST all feature a system of **two** bonded HT100™ drag discs for the strength and power needed to defeat the world's largest big game fish.

OTHER INTERNATIONAL® FEATURES

- All International® II Two-Speed models feature harness lugs for the extra support of harness assemblies.
- Double-dog design to help prevent any internal damage from the sudden, savage strike of even the biggest fish.

SETTING UP YOUR INTERNATIONAL® REEL FOR FISHING

First, mount your Two-Speed on your rod, attach clamp screws, rod clamp and any rod brace assemblies. Attach firmly but do not over tighten.

You can use either dacron or monofilament line on your Two-Speed, as capacities are approximately the same. Actual capacity will vary, depending on many factors, such as brand, line diameter, how tightly line is packed on, etc.

Be sure that the line goes on to your reel spool in the same direction (rotation) that it comes off the bulk spool. Doing this will help prevent twists. Load the line under plenty of tension to pack the spool hard while winding, occasionally criss-crossing the line every few layers to keep the line from "burying" itself under pressure from a big fish. Fill the spool to approximately 1/4 inch from the edge of the spool flange, and for best performance, keep your spool fully loaded. A full spool will make it easier and faster to recover line.

How you tie the line on to your spool is mostly a matter of personal preference. Whatever knot you use, be sure to tie it around the knurling or pin on the center of the arbor. An overhand knot in the tag end, to keep your arbor knot from slipping, and a couple of half-hitches as your arbor knot, will do the job.

The super braided lines, with extremely thin diameters for their breaking strength, can dramatically increase the capacities of these or any other reels. Check with your local Penn dealer, and above all, use common sense if fishing with these lines to avoid any possible warranty problems.

PRE-SETTING DRAG

The drag setting on your International® II Two-Speed reel, as in all drag settings, should be set to slip at only 25 to 30 percent of the line's breaking strength. This apparently low 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, so you will need this extra large margin of safety.

Working as a complement to the pre-set drag is the lever drag control. Basically, the higher you push the lever, the more drag pressure you add, just like pushing the brakes on a car. Your pre-set is adjusted with the lever pushed up to the strike button, but you can add or decrease drag pressure by pushing up or pulling back on the lever. The quadrant on Penn's International® II Two-Speed features 120 degrees of adjustment, from free (no drag pressure) to strike (where you strike and fight the fish) to full drag, which gives you a few extra pounds of drag pressure when you need it. You should use the full drag conservatively, like a reserve. You can throw the lever up to full for slowing down a truly large fish at the beginning of its run, or at the end, when you're up to the leader or you're hauling in dead weight. Never use the full drag when a fish is rapidly depleting the spool. A smaller spool diameter of line translates into greater line tension, and backing off the drag is your way of

compensating for this law of physics.

For the most accurate drag settings, use a spring scale. Attach one end of the scale to a solid object, run the line through your rod guides and attach the end of the line to the other end of the spring scale.

Always pre-set the drag with the lever in the strike position, but always remember to back off the lever down to the free position before turning the pre-set knob. Doing this will provide the most accurate and consistent pre-setting of the drag. If you turn the pre-set 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.

Rather than pointing the rod at the spring scale and pulling back to pull 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 had a fish on. When your spool starts to slip and yield line, check the reading on the spring scale. Pre-setting the drag on your International® II Two-Speed is a trial-and-error process, but it is a most elementary and necessary step to enjoy the full potential of the Penn International® II Two-Speed lever drag system.

Listed below are the recommended settings for your International® II Two-Speed reels. Be sure to periodically check your drag setting with the spring scale, especially after battling a large fish. If you're "bumping up" into the next line class (50lb. line on a 30SW, 80 lb. line on a 50SW, etc.), use the settings on the upper end of the range.

MODEL	LINE	STRIKE SETTING	FULL OR MAX. SETTING
130ST	130	30-45 LBS.	55-65 LBS.
80ST & 80STW	80	20-28 LBS.	35-40 LBS.
50S & 50SW	50	12-17 LBS.	21-26 LBS.
30SW	30	7-10 LBS.	15-18 LBS.

Remember that the strike position is where you want your lever to be to strike and fight the fish, using the full position, which will provide up to 1/3 more drag pressure, only when really needed.

HOW TO SHIFT GEARS

The simple, reliable system that Penn has built into its International® II Two-Speed models is so easy to operate that it becomes second nature almost immediately. To shift from low to high, simply depress the shifter button at the base of the handle, using the middle or index finger of your right hand. Then pull the handle out approximately 1/4 inch. Your hand doesn't even have to leave the handle. A red groove on the gear stud provides a handy reference that you are in high gear.

To shift back down to low gear, again push the shifter button in and push the handle in toward the reel. The red groove will disappear, which indicates you are in low gear.

You can shift gears even while you have a fish on, but of course you must stop turning the handle before shifting. Penn's shifting system is designed to operate under pressure, so for that reason it's easiest to shift when there's some load or forward pressure on the spool, even if it's only slight. Chances are you'll be shifting when a fish is on or at least when your line's in the water, which should provide sufficient forward pressure on the spool. And it's not that you can't shift without forward pressure on the spool; shifting is just easier, the handle just slides in and out better. If you want to shift gears on land, you can load the spool by pushing it forward with your left hand.

Here's another tip: pull or push the handle with a firm, direct and positive motion. If you don't push and pull the handle in a direct motion, it will be like you're trying to work the handle in one direction or the other, and shifting won't be as easy.

Finally, an alternative way to shift, especially for those with smaller hands, is to take your hand off the handle, push the shifter button in with your index finger, and with your thumb and other fingers, pull or push on the handle shaft for high or low gear.

CARE AND LUBRICATION

Your Penn International® II Two-Speed is quality manufactured for maximum durability, but like any precision instrument, reasonable care will ensure ultimate performance throughout many seasons.

After each fishing trip, the reel should be cleaned. First wipe or wash the reel with fresh water, preferably warm, to remove any accumulated salt deposits. Should you wash the reel, be careful not to use a driving force of water, since this will force the salt deposits into the reel's internal mechanisms. Rather, use a very fine spray to dissolve the salt on the external parts of the reel.

Dry excess moisture from the reel and then sparingly lubricate all exposed areas. Many fishermen use a pressurized spray oil for quick, easy protection after washing or wiping down their International® II Two-Speed reels. Try not to get any oil on the fishing line, but should any excess spray oil get on the line, it will do no harm if you wipe the excess off right away. Other fishermen will apply a light coating of oil with a rag to the exposed metal parts on the reel for protection against the elements.

Your International® II Two-Speed reel should be stored in a cool, dry place. Do not store in a plastic bag or airtight container, as the reel may develop condensation. Use the soft cloth bag provided with your International® II Two-Speed for storage.

Be sure to pull the drag lever all the way back to the free position for storage. This will take off pressure on various drag components, such as washers and springs, and will allow any of those internal parts to dry better if they get wet.

Tip: engage the click when storing your International® II Two-Speed reel. Doing this will prevent the spool from turning too easily and tangling your line.

Always store your Two-Speed in low gear (handle in). This minimizes the risk of damage to the shifting mechanism should the reel fall or hit something. Also, keeping your Two-Speed stored in low relieves pressure on the shifting mechanism spring and allows any components that may have gotten wet to dry out more thoroughly.

Periodically examine your International® II Two-Speed and check for any loose screws or fittings. Depending upon use, your reel should be overhauled at least once every season.

Frequently lubricate all frictional points on your International®. A few spots on your International® II Two-Speed to pay attention to for in-season lubrication are:

1. -the oil port on the handle knob
2. -the free, strike and full buttons on quadrant – push buttons up and down while adding a few drops of lubricant
3. -the friction areas on the underside of the click button
4. -the friction area under the shifter button-add a few drops of lubricant while pushing button in and out.

For best results, use Penn Reels lubricant. Penn's tubes of lube are just the ticket for lubricating oil ports and applying a few drops of oil where they will do the most good. Remember, only a few drops of oil are sufficient in most cases. Do not over lubricate!

When it's time for servicing, most International® owners opt for either a reputable Penn dealer in their area or factory servicing from Penn. See Penn Factory Servicing for details.

Penn International® reels are precision instruments that rely on exacting alignment of numerous components having extremely close tolerances. Internal servicing, such as changing drag washers, replacing worn or broken parts, etc., is best left in the hands of experts in repairing International® reels.

All of these servicing technicians have their own methods, styles and tricks in servicing and repairing Internationals®. We do recommend that everyone use a good quality, waterproof grease, like Penn's Muscle Grease, for moving parts, such as gear teeth, the click assembly, the gear stud assembly, etc. Penn Muscle Grease is the original grease used in all International® reels.

For mechanically inclined anglers, Penn recommends using the International® exploded view as a guide when servicing their reels. Select a clean, quiet, well-lit work area. Organize the parts in the order in which you remove them – don't rely on just your memory!

If you are just changing drag washers, clutch springs, lubricating gears, etc., it's easier to start disassembly from the left side plate assembly. For the most thorough servicing, including a complete breakdown of parts and sub-assemblies, cleaning and various parts replacement, it's easier to start disassembly from the right side plate assembly.

When re-assembling, lubricate frictional surfaces on both internal and external parts. Be sure to grease threads on all external screws to provide insulation between screws, side plates, etc. Doing this will make the screws much easier to remove when servicing the reels again.

Do not over lubricate. Small amounts of grease in the right places and a regular servicing schedule will keep an International® reel humming for a lifetime of blue water fishing.

Unlike many import companies, Penn prides itself in providing fast and excellent service at reasonable prices. This is possible because most Penn Products are made in the U.S.A. and Penn maintains a policy of designing models to maximize Product and part continuity. Penn does not change Products solely for the sake of change, but only when the change results in an improved Product.

Many Penn Products have been in service for 40 years or more. Our customers marvel at their ability to easily obtain replacement parts to keep those models in service.

For the fastest repair service and spare parts, we suggest you contact your local Penn dealer. You may also return your Penn Product for factory service to one of the Penn Warranty Centers. Send it insured and include a short note describing the service you want. To avoid errors, make sure that your name and return address appear neatly and clearly on both your outside package and your note. Allow sufficient and reasonable time for Penn to receive and service your Product. Avoid our spring rush by sending your Penn Products in for service and repair during our fall or early winter.

Penn will notify you that your Product has been serviced, providing a reasonable charge for parts, labor and return postage, or you can request VISA or MasterCard payment. Provide card type, name on card, card number, expiration date and daytime telephone number when paying by credit card

HOW TO ORDER PENN REEL PARTS

1. By mail, please list model for which you are buying parts and order parts by name and number.
2. Include your legible, printed name, address and daytime telephone number with your order.
3. Penn will then send you an invoice, showing part prices plus shipping and handling charges.
4. There is a minimum part order of \$2.00 and a shipping and handling charge of \$3.00 on a minimum order.
5. Upon receipt of your payment (check or money order only), your order will be shipped to you via parcel post or U.P.S.
6. For faster service, you may also use your MasterCard or VISA credit card to mail in parts orders. Specify MasterCard or VISA card, account number and expiration date when ordering parts. Be sure to include information requested in Steps 1 & 2.
7. You may also use your MasterCard or VISA to place parts orders over the telephone. Call the Penn Parts Department at (215) 229-9415 between 8:30 am and 4:30 pm U.S. East Coast time.
8. For fastest service, see your local Penn dealer. Check telephone directory for dealer nearest you.

**Order Parts Online! ~ We ship to entire USA
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