

VALENTINE Planetary Plus® Fly Reels

Thank you for selecting a Valentine fly reel. Your Planetary Plus fly reel incorporates Valentine's patented *Planetary Gear System™* providing unique and useful features for greater fishing satisfaction and convenience.

Valentine Planetary Gear System™

All Valentine Planetary Gear fly reels incorporate the Valentine Planetary Gear System. This system utilizes the simple mechanical principle of planetary gearing; one large gear mounted concentrically to the front of the spool, the other affixed to the crank knob handle via a stainless steel shaft and a bronze pinion bearing, assembled to a round plate referred to as the crank plate. The spool and the crank plate rotate independently of one another on the reel's main spindle, interacting only through their respective gears. Gripping and subsequent cranking of the crank knob handle engages the crank plate gear, referred to as the pinion gear, driving the larger gear on the spool. The spool always rotates at a faster rate than the rotational speed of the crank plate due to the respective size relationship of the gears. This feature provides the fly fisher the advantage of retrieving line at a faster rate than conventional fly reels, especially helpful when playing a fish that may suddenly change direction, creating a necessity to pick up slack line quickly.

The system has another useful advantage, alternately, when line pays out from the spool (presumably when an especially large fish is on the other end) the crank knob does not orbit around the reel's central axis, preventing finger injuries and incidences of broken leaders due to snagging. As a hooked fish makes it's "run", line is taken from the spool; since the spool and crank plate are independent of one another, the crank plate "floats" rotationally, with the crank knob characteristically gravitating to a 6:00 position due to it's weight and the weight of it's associated components (bronze pinion bearing, shaft, gear, etc.). The crank knob will then rotate, only on it's own axis, as the spool continues to rotate. As may now be envisioned, this mechanical system is located toward the front face of the reel, having no direct effect on the disc drag system situated towards the back of the reel. This independence between the drag system and the planetary gear system allows any degree of drag resistance settings, including entirely "off", without affecting the ability to spool line: direct and positive line retrieval capability!

Specifications & Features

- 1-1/2 to 1 retrieval ratio for fast line retrieval: One crank rotation results in 1 and ½ full spool revolutions.
- Anti-reverse functionality: Crank knob characteristically gravitates into a stationary bottom dead center position as line pays out.
- Positive line retrieval: Direct (gear) spooling action at any drag setting, even in the drag "off" position. The drag need not be engaged to create friction to "drive" the spool as is typical of most anti-reverse reels.
- Palming spool with extra wide rim, provides easy access for alternate drag control option.
- Easy, quick spool changes in seconds without tools or coins: Simply slide the latch pin towards the center of the latch housing to disengage the crank plate for removal and access to the spool
- Tapered inner frame diameter minimizes incidences of fly line pinch during spool removal.
- Unique reel foot: Cold forged and heat treated 6061 alloy Aluminum reel foot is assembled to the frame with **four** stainless steel screws for positive securement and peace of mind. Additional attachment security is provided by mortise and tenon position lock feature between foot and frame. The foot has a conically tapered shape preventing unwanted movement and loosening on the fly rod.
- Delrin AF® (teflon impregnated) crank plate bearing provides extended wear resistance, virtually eliminating wear on reel's main spindle.

Specifications & Features Cont.

- Large, contoured crank knob handle provides gripping ability with comfort.
- Line out audible click (36 clicks per revolution) with on-off capability. Line in click has twelve clicks per revolution.
- Corrosion and abrasion resistant construction: All black aluminum components are hard coat anodized. All ferrous components fabricated from high quality 300 series stainless steel. Plastic components fabricated from high wear and impact resistant Dupont Delrin® or Delrin AF®.
- Infinitely adjustable stainless steel disc / Delrin AF® drag with smooth / low start up friction .
- Machined aluminum alloy 6061 construction on major components including frame and spool.
- Sensible and simple mechanical design without delicate or fragile parts for low maintenance and dependable trouble free operation.
- Complete factory parts and service since 1972.

General:

Model	Size (Diameter)	Weight	Line Capacity Example
PL-9	3.5" / 89 mm	9.5 oz. / 272 g	WF9F/200 yds. 20# * or WF9F/ 140 yds. 30# *
PL-11	3.8" / 97 mm	10.8 oz. / 306 g	WF11F/300 yds. 20# * or WF11F/220 yds. 30# *

* Line capacities based on Cortland® lines and backing. Capacities may be greater or lesser depending on product brand used

General Maintenance: Lubrication

Adhere to a regular lubrication schedule to ensure reliable performance of your reel. Use light reel or gun oil. **DO NOT** use grease for lubrication of moving components. Grease will captivate and hold grit and foreign matter in areas where mating components interact.

- Regularly lubricate the spool pawls (spring loaded pins) located on the rear of the spool. Remove the spool from the reel and lay it down with the pawls facing skyward. Place a drop of oil on the exposed pawl pins and gently "pump" the ends with a screwdriver, toothpick, etc. This will allow lubricant to flow into the working area of the pawl. Wipe away excess lubricant from the face of the spool flange.
- Occasionally place a drop of lubricant at the end of the reel's main spindle. This will lubricate spool bearings and the crank plate latch mechanism.
- Regularly lubricate the bronze pinion bearing (adjacent to the crank knob). Do this by removing the crank plate from the reel and placing a drop of oil in the small square opening at the center of the small gear of the crank knob assembly. Allow the lubricant to penetrate into the hole by (end play) pumping the crank knob several times. Wipe away surplus lubricant remaining on the face of the gear. Also, apply a drop of oil at the interface of the crank knob washer and bronze bearing allowing lubricant to seep between the surfaces.
- Regularly lubricate the override/click pawl mechanism attached to the brake plate. Remove the crank plate and spool to access this area.

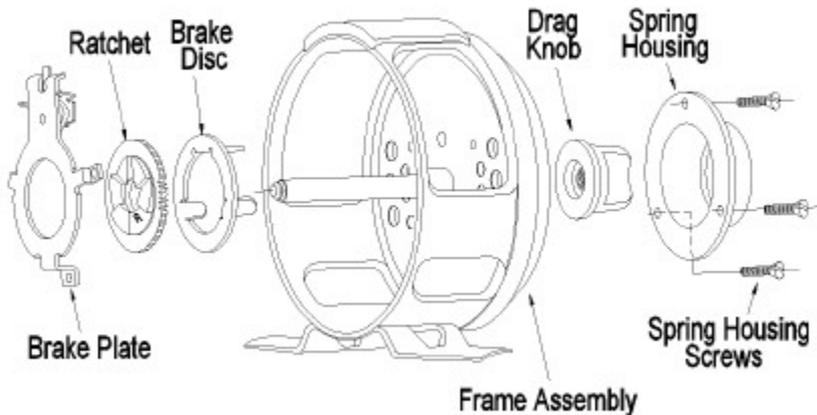
Saltwater Environment Usage

The components in your reel are resistant to corrosion from saltwater exposure, however varying degrees of corrosion may still occur if not given proper attention. After using your reel in saltwater thoroughly wash and rinse with fresh water. Allow to dry and lubricate as per the aforementioned procedure.

Retrieve Orientation Conversion

Follow these instructions to convert your reel to the desired retrieve orientation. Avoid damage to the protective anodizing, by using an appropriately sized screwdriver. 'Left hand' designates that retrieve winding is done in a counter clockwise rotation with the left hand, and conversely 'right hand' designates that retrieve winding is done in a clockwise rotation with the right hand.

- 1) Remove the crank plate and the spool from the reel.
- 2) Tighten the *drag (adjustment) knob* at least one half revolution starting from the backed off, "no drag" position, to pre-load the drag spring: Do this to ease re-assembly later. Remove the three (3) *spring housing screws* from the black *spring housing* on the back of the reel, freeing the stainless steel *brake plate* to gain access to the *ratchet*. The *brake disc* can remain in place and need not be pulled from the *frame assembly*.
- 3) Remove the brake plate to access the brown Delrin AF® ratchet. Flip the ratchet over to achieve the desired retrieve orientation. NOTE: There is a "L" (left hand) and a "R" (right hand) molded on alternate sides of the ratchet: You should orientate the appropriate letter facing out (toward the spool) to achieve the retrieve designation you desire.
- 4) Reassemble the components in the order shown in the exploded view illustration, making certain the screws are sufficiently tightened. Now, rotate the drag knob back to the off position. At this point you should be able to rotate the ratchet without extraordinary resistance using your finger. If not, recheck the assembly of the components as per illustration.
- 5) Install the spool and crank plate assembly. **NOTE:** Always be certain the crank plate assembly is secure and properly latched to the spindle when reinstalling to prevent accidental



**Drag Mechanism - Exploded View
(Planetary Plus™ Series Reel)**

disengagement.

Trouble Shooting

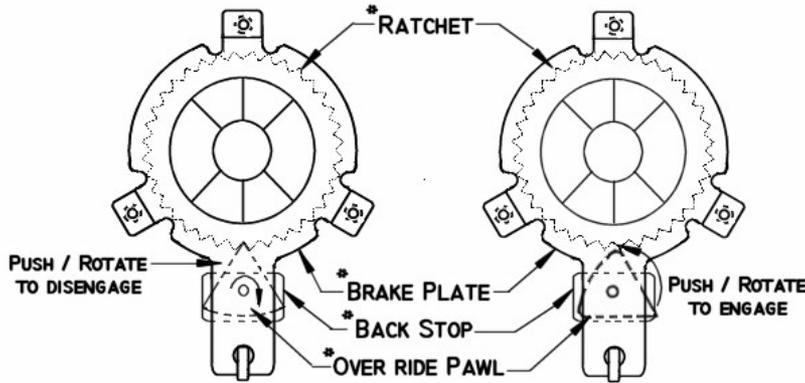
Symptom	Possible Reason	Possible Solution
Line out click noise is muted or nonexistent.	Click mechanism components lack lubricant and / or are contaminated with debris causing sticking or restricted movement.	Clean mechanism if necessary. Lubricate with a couple of drops of light oil and push pawl back into it's engaged position (see illustration in next section) if necessary. Note: DO NOT use grease as a lubricant.
	Click mechanism pawl is in the "off" position.	Move (rotate) the click pawl back into it's engaged position (see illustration in next section).
Drag resistance not discernible, or does not engage at any drag setting.	Spool pawl pins are staying in the "down" or "in" position (flush with face of spool flange) because of, or a combination of, silt or salt buildup and lack of lubrication. Subsequently, pins do not engage drag (ratchet) mechanism.	Remove gear from spool, remove pawl pin springs and pawl pins. Clean / ream cylindrical pawl pin bore cavities with a pipe cleaner soaked with lubricant. Reassemble, making certain the pawl pins extend above the surface of the rear spool flange after assembly. Re-lubricate as per procedure in General Maintenance section.
	Damage to drag ratchet teeth has occurred and spool pawl pins no longer engage.	Replace ratchet. Contact Val-Craft Inc. for drag ratchet replacement.
Crank knob orbits around the main spindle of reel when line is paying out, rather than gravitating to the bottom dead center position. (6:00 position).	Bronze pinion bearing (at base of crank knob) is contaminated with debris, corrosion deposits or aged & congealed lubricant.	Flush and / or submerge bronze pinion bearing area with alcohol or kerosene type solvent to loosen and remove debris or aged lubricant. Additionally, if available, apply compressed air to bearing area to aid in removal of contaminants. Re-lubricate as per procedure in General Maintenance section.
	Sand particle lodged in spool or pinion gear.	Flush and rinse with (fresh, if available) water.
	Damaged pinion gear, bronze pinion bearing or stainless steel pinion shaft, preventing free rotational movement of knob assembly.	Contact Val-Craft Inc. for factory service / repair.

Line Run Out Click / Audible

The line out click mechanism is set to the "on" or engaged position at the factory. To disengage this feature for silent line out, rotate the *over ride pawl* until it cam locks against the *back stop*. The illustration shows the direction of rotation as clockwise but counterclockwise rotation will result in the same "off" condition. A tooth pick or straightened paper clip can be used for this purpose. This procedure can be accomplished while the *brake plate* is assembled to the reel frame but disassembly of the brake plate from the reel will allow a better view of the mechanism and easier access to the over ride pawl.

"ON" - Engaged Position

"OFF" - Disengaged Position



Line Out Click Mechanism

(* - Hidden from view as normally seen)

Repairs / Service

Your Valentine reel will provide many years of dependable service with minimal care. Most individual components can be replaced if damage or wear does occur. Although most replacement parts may be easily installed without special tools, please contact the manufacturer for more involved repairs.

Necessary repair or replacement of components covered under the warranty will be made by Val-Craft Inc. at no charge. Services, not covered under warranty are available from Val-Craft Inc. and may be subject to invoicing, or payment in advance for labor and replacement parts. For non-warranty service please include \$15.00 U.S. for standard return shipping, insurance and handling coverage. For service, send the complete reel, shipping costs prepaid, with an explanatory letter to:

Val-Craft Inc.
Dept. R
P.O. Box 469
171 West Main Street
Norton, Ma. 02766-0469

Repairs & Service Cont.

Ship to the P.O. box if using postal service. Ship to the street address if using United Parcel Service or FedEx.

Please note that service or modifications performed on Valentine Fly Reels by individuals not recognized as authorized Val-Craft Inc. agents may void the warranty.

Date purchased: _____

Serial # : _____ (Located adjacent to foot, underneath the spool rim.)

Save this document for future reference.

Warranty / Guarantee

Every Valentine reel is individually serial numbered for registration in the original owner's name. Reels are warranted against defects in materials and construction. Val-Craft Inc. will replace or repair any components that are defective under this warranty. This provision is void in obvious instances of negligence, abuse, or uses other than intended. In addition, your complete satisfaction is guaranteed. We are entirely confident that after receiving and using this product, you will be delightfully satisfied. However, for whatever reason(s), should this product not meet your expectations, return it to the seller for a complete refund.

Valentine Fly Reels

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