



Products Stores Service All Other  
Warranty Centers Repair Department Parts Department



PENN REPAIR BULLETIN # 2

October, 2004

### "International V Series Reels - Drag Covers"



#### Reels with the Problem

We have identified a drag cover problem in some International 50VSW, 70VS AND 70 Big Game Special reels (see photos above). The problem reels are easy to identify. Look at the Pre-set Drag Knob (see photos on right). If the Pre-set Drag Knob has no printing on it, then you have a problem! If the Pre-set Drag Knob has printing that reads PUSH IN TO TURN, then you don't have a problem.



#### Problem Drag Covers

The reels identified above, with no printing on the Pre-set Drag Knob, have a loose drag cover that does not lock into place (see photo below on left). This drag cover can back off and force the reel to freeze. A new drag cover has been developed (see photo below on right) that contains a locking pin to prevent the cover from backing off, as well as a notched-edge drag plate for locking the pin.



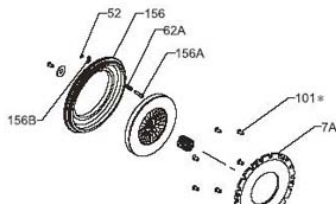
#### Warranty Center Repair

Penn International 50VSW		
52	052 910	Retaining Ring
156B	156B 030VS	Lock Plate
156	156 050VS	Locking Drag Cover
62A	062 545	Click Spring
156A	156A 030VS	Lock Pin
7A	007A 050VS	Metal Drag Washer
or		
156C	156C 050VS	Complete Drag Cover Kit
7A	007A 050VS	Metal Drag Washer
Penn International 70VS and 70 BGS		
52	052 910	Retaining Ring
156B	156B 030VS	Lock Plate
156	156 070	Locking Drag Cover
62A	062 545	Click Spring
156A	156A 030VS	Lock Pin
7A	007A 070	Metal Drag Washer
101*	101 030	Ratchet Screw (6 req.)
or		
156C	156C 050VS	Complete Drag Cover Kit
7A	007A 070	Metal Drag Washer
101*	101 030	Ratchet Screw (6 req.)

We recommend that you bring/send your reel to a local Penn Warranty Center for a replacement drag cover, free of charge, and the labor necessary to repair your reel, also free of charge. Do not try to fix the problem yourself. Let an expert Repair Technician at one of our Warranty Centers fix the problem. They will have the right tools and experience to ensure that your Penn International reel is properly serviced.

#### How to Fix the Problem

Prior to disassembling the reel, gather all necessary parts and tools for the job and find a clear work area. Call Penn Parts Department for all parts needed to fix this problem. Parts are listed for each reel (see chart) that may have the problem drag cover. Required tools include a T-15 Torx Driver, as well as Phillips Head and Flat Head Screw drivers (see photo a). Also, a Drag Cover Wrench (see photo b) which can be either the combo tool supplied in the box with each International V-Series reel, or a custom designed, heavy-duty wrench available for Penn Authorized Warranty Centers only, which can be purchased through Penn Parts Department. Please note that each reel requires a different size wrench due to the different sizes of drag covers. (168B-50VS for the 50VS or 168B-70VS for the 70 VS and 70 BGS reels). If the drag cover is difficult to remove with the supplied tool, the custom designed wrench will be extremely useful, since it is much more comfortable and provides greater leverage when removing the drag cover.





\*Ratchet Screws only needed on the 70VS and the 70 Big Game Special



**Instructions.**



**1)** Remove the left side plate to access the spool and drag cover (see photo c). The T-15 Torx screwdriver is required to remove the side-plate screws of your Penn International. Remove the spool once the side-plate is disengaged, using caution not to remove the Disc Clutch Spring Washers. Should the clutch springs fall out, the proper diagram for reassembly is listed in Step 8.



**2)** Verify that the reel does not have the locking cover before proceeding. If a locking drag cover is in place (see photo d), there is no need to replace the existing cover or plate. If your drag cover does not look like photo d, you will need the replacement drag cover and drag plate.



**3)** Remove the old, non-locking drag cover with either the supplied combo tool (see photo e), or with Penn's custom designed, heavy-duty drag plate wrench (see photo f).



**4)** Remove the Phillips-Head screw at the end of the pinion gear (the spindle that runs through the spool) to allow the outer drive plate to be removed so the metal drag washer can be accessed (see photo g). Once the screw is removed, the drive plate with drag washer (117D) and drag spring should be removed. Attached to the spool with six screws is the metal drag washer.



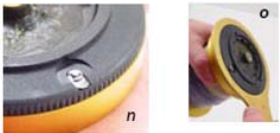
**5)** Remove the six screws of the metal drag washer (see photo h), and replace the old metal drag washer with the new, notched metal drag washer (see photo i).



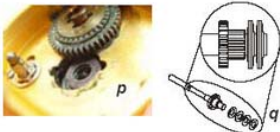
**6)** Reassemble the outer drive plate, making sure to replace the drag spring (see photo j) and outer drive plate with washer (see photo k). These pieces are attached with the Phillips-Head screw from Step 4. Make sure to replace the screw in the end of the pinion. Slight pressure on the drive plate is required to compress the drag spring, allowing the screw to be threaded into the pinion.



**7)** Use a flat head screwdriver to swing the locking tab into the "Up" position (see photo l). Reassemble the new, locking Drag Cover. This piece should be hand-tightened, with the locking mechanism in the "Up" position (see photo m).



**8)** Once hand-tightened, swing the locking mechanism back to the "Down" position (see photo n), so it is able to engage the metal drag washer. Tighten approximately another 1/8 to 1/4 turn with the Drag Cover wrench (see photo o). The locking mechanism will drop into place. If it happens to fall onto a non-locking position, continue to slowly tighten the Drag Cover. It will drop and lock into place. Do not over-tighten the Drag Cover piece.



**9)** The spool, with its new locking Drag Cover, should be reassembled back into the reel. Take the time to align the Disc Clutch Spring Washers before dropping the spool back into place (see photo p). If these springs are removed, please see diagram q for correct orientation of these four spring-washers before reassembling the reel.



**10)** Once aligned, drop the spool into place (see photo r). The spool may temporarily bind as the pinion is re-engaged with the main gear. Slowly turn the handle to align. The spool will drop into place.

**11)** Reattach the left side plate with the Torx screws (see photo s), giving each a light coating of Penn Grease. Confirm and match the screw patterns of both the side plate and frame, and assemble the side plate to the frame.

\*The double drag system is contained on the left side.



*a. The double dog system is contained on the left side plate. Confirm that the two dogs are in place, ready for assembly. A useful tip for reassembling the left side plate is to keep the reel in free spool. This simple tip will make reattaching the left side plate much easier, as there is no load on the spool.*

*b. The double dog system should be engaged as the side plate is reattached. Rotate the handle to engage the system and align the components into place. When the dog system is engaged, you will notice the ratcheting sound typical of every Penn International Reel. If you are winding the handle, and it is silent, you may want to try again.*