

# Daiwa Sealine 600H Rebuild and Upgrade

by dayOne « on: July 06, 2012, 12:41:07 AM »

Rather than reinvent the wheel, go here (<http://alantani.com/index.php?topic=8.0> ) for Alan's excellent tutorial on the Sealine 400H/450H. Except for size and several small differences, the Sealine 600H is virtually identical to the Sealine 400H/450H. In this tutorial we will address these differences.

To begin, you need to download the schematic (<http://www.daiwa.com/PartsDiagram/PartsDiagram/600H.pdf> ) and follow Alan's tutorial to disassemble the reel and clean and lube it.

Here's the reel.



The first difference is the bearings. I discovered that the bearings only had shields on one side, and the shield is removable without removing the bearings from the bearing cups. Since this reel was to be used for bottom fishing and no casting, I elected to pack the bearings with grease. I removed the shields and packed the cups with grease, which in turn fully packed both sides of the bearings. I considered replacing the shields but in the end, left them open.

Next on the list are the drags. There are several ways to set these up. Common to both ways is to use a Penn 6-114 HT100 washer that has been filed down a little to fit the cavity on the bottom of the main gear. I use a small file and it takes a minute or so. I imagine a larger file would be faster, but you don't have to remove much.

The first way to set the drags up is similar to what Alan did in his tutorial and is as follows: a Penn 6-114 washer, the main gear, two Penn 6-115 washers, a keyed washer, two Penn 6-115 washers, the eared washer, one Penn 6-115 washer and the heavy keyed washer. This should give about 20 to 25 lbs of drag.



The way I chose requires an extra keyed washer and an extra eared washer, The washers from the Penn 114H/115 will fit but the hole in the keyed washers is a little large and the ears on the eared washer are a little small, so try to find the 600H washers. I mention this because I had trouble finding the 600H eared washers. You also need five of Dawn's #46 Carbontex washers. They need to be modified by making the hole larger. I held them between two eared washers with vice grips and used a Dremel Tool to enlarge the holes. I first used a tapered stone then a small sanding drum. Total time, not counting bit changes, less than 15 seconds.







Using the Dremel tool, I next lengthened the grooves in the main gear, to ensure that the eared washer sits low enough to fully contact the drag washers. This may not have been necessary, but I felt better for doing it. Better safe than sorry and ending up with insufficient drag.



The final drag stack ends up being a Penn 6-114, main gear, #46 washer, keyed washer, #46 washer, eared washer, #46 washer, keyed washer, #46 washer, eared washer, #46 washer, thick keyed washer.

Penn  
114H Drag  
Washer



My Daiwa  
600H Drag  
Washer

Penn 114H  
Drag Washer  
on a Penn  
114H Gear  
Sleeve



My Daiwa 600H  
Drag Washer on  
a Daiwa 600H  
Gear Sleeve



Penn 114H Drag Washer on a  
Daiwa 600H Gear Sleeve.  
Notice the gap? There is about  
2 mm gap between the drag  
washer and the gear sleeve.

The last difference is the tension washers or belleville washers on top of the drag. The 400H/450H uses a spacer and two tension washers. The 600H uses the same setup as the 900H, consisting of a heavy tension washer, a flat drag washer, a lighter tension washer and then the spacer.





**Add a larger handle grip and the reel is complete. Since I plan to use this reel for A.J.'s and grouper, I will spool it with 500yds of 100lb Spectra and top it off with JB 130lb hollow. I'm hoping for 30 to 35 lbs of drag and I'm not worried about the gears after looking at how heavy duty they are.**



Now for a few thoughts and comments about this reel. It is about the same size and has the same drag capability as the Penn 114H. but it comes with aluminum frame and side plates (cast) from the factory. Add this to the fact that it's gear ratio is 3.1:1 which is close to the coveted 3.25:1 Accurate gears and better than the Penn 2,8:1 gears, and the handle is about one inch longer, I feel that the 600H has a large edge on the 114H. Another point is that the parts for this reel are much cheaper. Examples are the side rings, \$3.66 vs \$10-\$15 for Penn, handle \$8 to \$10.35 vs \$27.50 for Penn. As a matter of fact, the handle on the 600H fits the 114H/115 and is longer, with two mounting positions,

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David

"Lately it occurs to me: What a long, strange trip it's been." - R. Hunter