

Caution: Always wear safety glasses and gloves. Disconnect all power to the downrigger before beginning any work or maintenance. Johnson Outdoors Inc. is not responsible for any damage due to improper rigging or installation. If you do not have the skills, experience and tools to perform the following maintenance and repairs, we recommend you seek the help of a Cannon Authorized Service Center. A list of Authorized Service Centers can be found at <http://www.cannondownriggers.com/ASC/> or contact our Technical Service Department by email at [service@cannondownriggers.com](mailto:service@cannondownriggers.com) or, by dialing 800-227-6433.



Figure 1: 0220477

The following instructions show how to install the 0220477 3 digit counter (Figure 1) on your Cannon Downrigger. The other part you will be accessing during this repair is the counter gear; you may be able to reuse the gear on your downrigger, if you do need to replace the gear it is critical that you use the correct replacement gear. Gear sets for downriggers manufactured 2007 to present are on the chart below (Figure 2); for older downriggers consult the parts list in your owner’s manual.

Downrigger Description	Model Number	Years	Serial Number Begins w/	Counter	Reel Gear	Counter Gear
Easi-Troll ST	1901020	2013-current	N, O	0220477	3333004	3333003
Uni-Troll 5 ST	1901120	2013-current	N, O	0220477	3392222	3392223
Uni-Troll 10 STX	1901130	2013-current	N, O	0220477	3392222	3392223
Uni-Troll 10 STX TS	1901140	2013-current	N, O	0220477	3392222	3392223
Magnum 5 ST	1902300	2011-current	L, M, N, O	0220477	0233560	0833561
Magnum 10 STX	1902305	2011-current	L, M, N, O	0220477	0233560	0833561
Magnum 10 STX TS	1902310	2011-current	L, M, N, O	0220477	0233560	0833561
Easi-Troll HS	1901010	2007-2012	CNAH, CNAI, J, K, L, M	0220477	3330004	3333003
Uni-Troll 5	1901105	2007-2012	CNAH, CNAI, J, K, L, M	0220477	3330004	3333003
Uni-Troll 10	1901100	2007-2012	CNAH, CNAI, J, K, L, M	0220477	3330004	3333003
Uni-Troll 10 TS	1901110	2007-2012	CNAH, CNAI, J, K, L, M	0220477	3330004	3333003
Mag 5 HS	1902050	2007-2010	CNAH, CNAI, J, K	0220477	0233560	0833561
Mag 10 HS	1902100	2007-2010	CNAH, CNAI, J, K	0220477	0233560	0833561
Mag 10 TS	1902105	2010	K	0220477	3392220	3392221
Mag 10 TS	1902105	2007-2009	CNAH, CNAI, J	0220477	0233560	0833561
Mag 15	4400202/4400204	2007	CNAH	0220477	0233560	0833561
Mag 20 DT/HS	1902200	2010	K	0220477	3392220	3392221
Mag 20 DT/HS	1902200	2007-2009	CNAH, CNAI, J	0220477	0233560	0833561
Mag 20 DT/TS	1902205	2010	K	0220477	3392220	3392221
Mag 20 DT/TS	1902205	2007-2009	CNAH, CNAI, J	0220477	0233560	0833561

Figure 2: Counter Gear Sets for Cannon Downriggers 2007 to Present

To install the counter/gear without removing the reel from the downrigger: Rotate the reel so a rib on the reel is visible in the middle of the opening that the counter installs in (Figure 3); hold the counter gear against that rib; push the counter into place running the shaft of the counter into the hole in the gear (Figure 4). When pushing the gear into place use a solid object like a coin to push on the end of the shaft on the back side of the counter, the counter shaft can be forced out the back side if not supported (Figure 5).



Figure 3: Spool rib aligned for install



Figure 4: Counter Shaft Lined up on Gear



Figure 5: Pushing the Counter in; Dime used to support the Counter Shaft