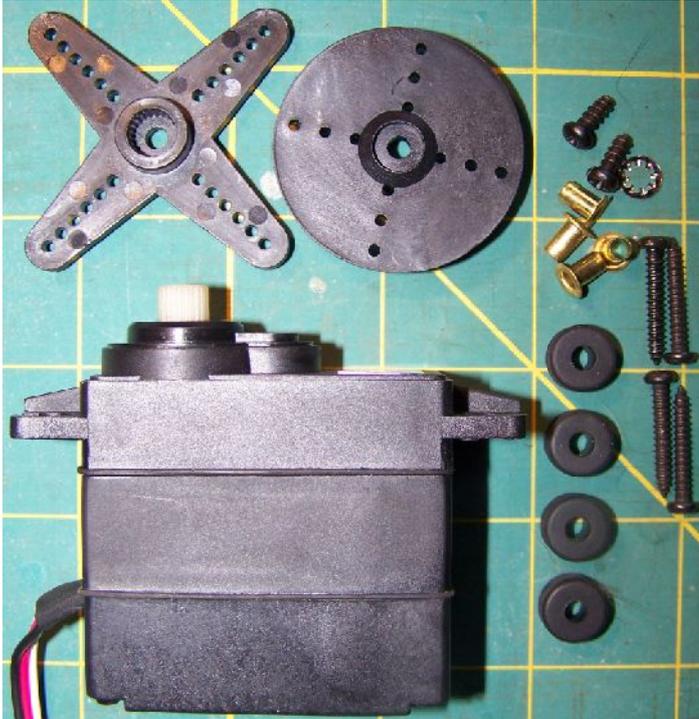


Initial Look at Servo YM2766

Jaycar are selling a servo that is similar to the Futaba or Hi-Tech sail servos. In the Jaycar catalogue it is SKU YM2766 "Servo HD 6V 54x26x51mm B/Bearing 13Kg/Cm". The retail price of this item with quantity one is \$54.00 (NZ) which is considerably less than the \$90.00 or so for a Hi-Tech HS-765HB or the more than \$120.00 for the Futaba equivalent.

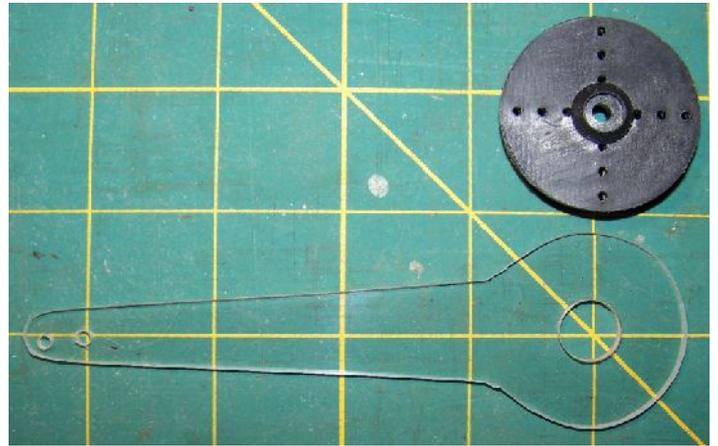


The body of the unit is marked "GWServo", "S04 BBM" "Made in China".



Generally it is the correct size for a sail servo though it is slightly taller above the mounting reference. The splined output shaft is considerably larger than the usual units and there is no sail arm supplied. Two output crossarms are supplied, one is a cross the other a circle. It is easy to make a simple arm from perspex or similar that can attach to the underside of one of the supplied crossarms to use as the sail arm.

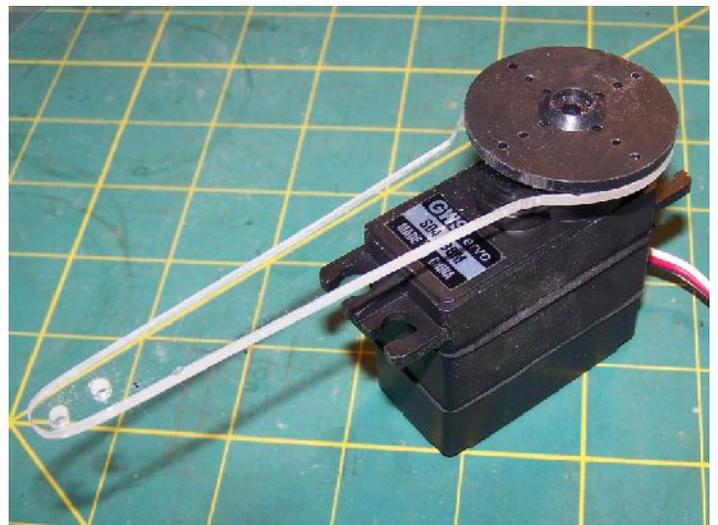
The slew rate seems to be about the same as a Hi-Tech and the torque is comparable.



The unit has only a 90 degree swing. The Hi-Tech HS-715BB and HS-765HB units that are used as sail arm winches have a 140 degree swing which takes the arm from almost touching the keel bolt tube right back to touch the rear tray support strut. With the standard arm this gives a 7.5 inch travel for the sheet. The 90 degree swing of the YM2766 only manages 6.5 inches.

Note that other models of Hi-Tech, and presumably Futaba, that use the same case may also only have a 90 degree swing, so check the specifications if you have a different model.

It is unlikely that the loss of this inch of sheeting will have any significant effect on boat performance as the boom will be fully out and resting on the rigging before the Hi-Tech has fed out all the sheet.



When a Hi-Tech unit is fitted in the boat the servo sits almost down to the hull and there is a clearance between the top of the arm and the underside of the hatch deck of just under half an inch (11mm). With a 3mm perspex arm fitted under the circular crossarm the YM2766 will project higher by about 9mm in the hatch opening but the top of the arm is only about 3mm higher when it is fitted to the underside of the crossarm, so there should be no problems with clearance.