

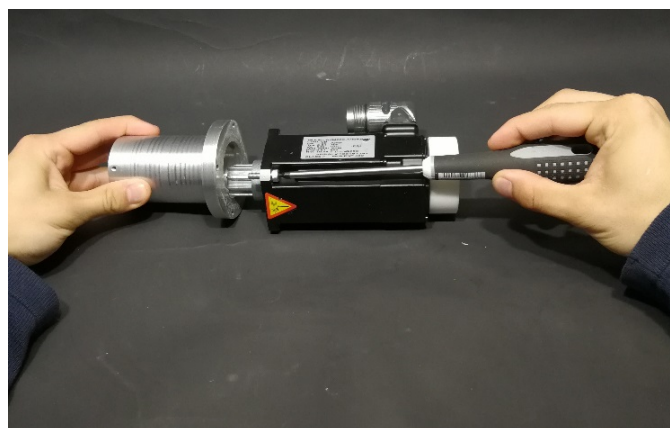
Guide Teknic ID39-B adaptor mounting
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Mounting of servo motor adapter on Teknic servo motor

The in USA manufactured Teknic M-2331W-LS-04K step motor of size NEMA-23 was introduced by Finesse - now Thermo Fisher. Weight around 1.2 kilo and rated at 6,000 RPM and 4.5 amp. Be aware of those two axle diameters are available – either ¼” or 3/8”. The rubber coupling and metal sprocket used is from Walter-Flender model PowerGrip size VF-WK-PG-21.

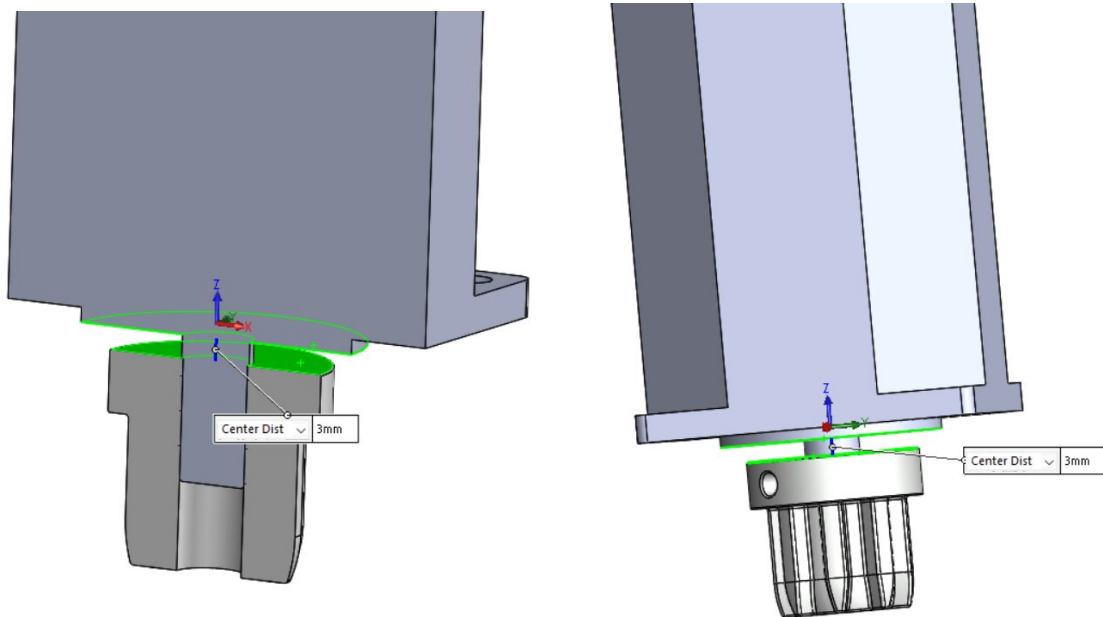


CerCell seek to use bolts with internal hexagonal sockets. The Allen keys are metric and of M4 size or M5 bolt for connecting motor and adapter via nuts. The 4 bolts should be tightened with max 1-2 Nm or 1-2 lbf/feet torque.



The metal sprocket inner hole dimension depends on the particular servo motor shaft size. And the zinc metal sprocket wheel fits tightly onto the shaft. Be sure the M3 Allan screw fits carefully into the axle keyway. Mount the metal sprocket on the shaft before the large aluminium adapter! Use an Allen key 2,5 mm. Tighten well like 2-3 Nm or 2-3 lbf/feet.

Distance in between the rear flange of the metal sprocket and the motor flange needs to be around 2-3 mm or app 1/8". See drawing explanation.



Rendered sketches of the Teknic motor mounted with the metal sprocket. Distance between motor flange and sprocket app 2-3 mm. Its normal the motor reaches 80°C during operation.



We refer to these links

<http://cercell.com/support/drive-system-details/servo-motors/>

<http://cercell.com/support/drive-system-details/conversion-kits-for-servo-motors/>

<http://cercell.com/support/drive-system-details/couplings-in-adapters/>