

Technical Bulletin – Energi Powerchair

Castor Fasteners

As stated in the Energi powerchair owner's handbook, the powerchair should be serviced at least every 12 months. **During this annual service, the castor housing bolts and nyloc nuts should be replaced.** This applies to Energi powerchairs which have bolt-on castor housings both fitted with and without kerb climbers. The fasteners required for a standard powerchair are 4# extra high tensile M6 x 55 cap head bolts and 4# M6 nyloc nuts. The fasteners required for a powerchair fitted with kerb climber brackets are 4# nyloc nuts, 2# extra high tensile M6 x 60 cap head bolts and 2# extra high tensile M6 x 60 countersunk screws.

The procedure for replacing the fasteners on a standard powerchair is as follows:

1. Support the wheelchair safely to enable the removal of the front castor wheels
2. Remove the existing nyloc nuts from the bolts securing the castor housing. Pull out the existing cap head bolts and replace with new extra high tensile M6 x 60 cap head bolts one at a time.
3. Attach the M6 nyloc nuts
4. Tighten all nuts and bolts carefully to a 17Nm torque setting.

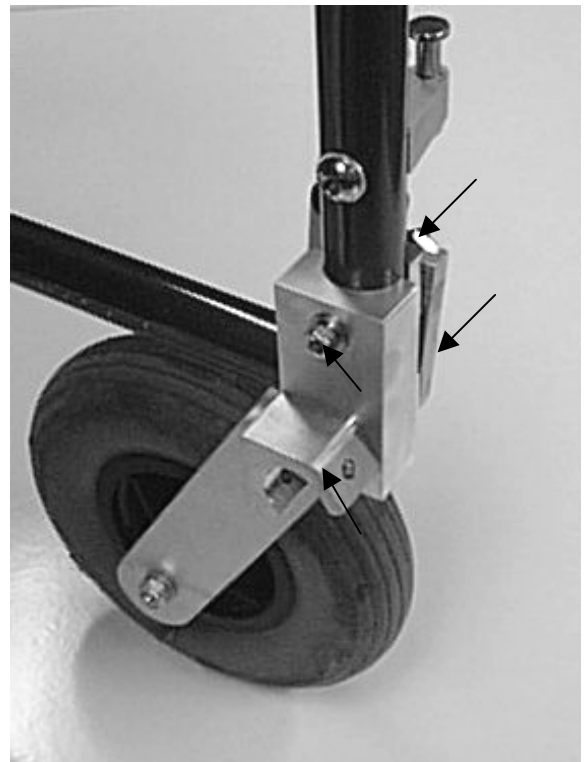
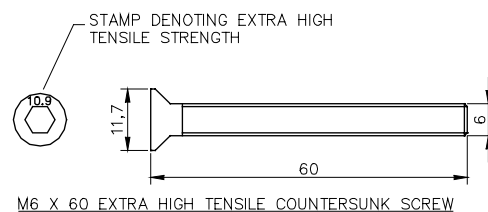
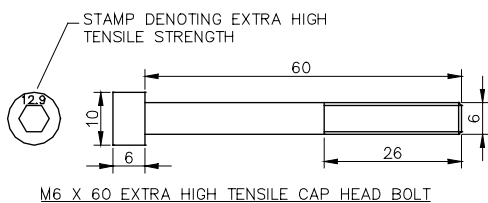
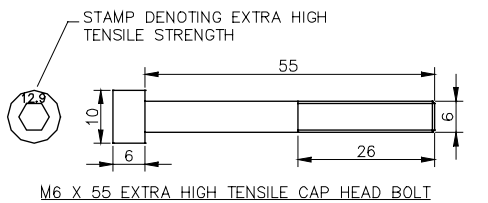
The procedure for replacing the fasteners on a powerchair fitted with a kerb climber is as follows:

1. Support the wheelchair safely to enable the removal of the front castor wheels
2. Remove the nuts from the bolts retaining the castor brackets to the frame. Note the position of the hexagonal adjustment pieces with offset holes for the cap head bolts. This is important as the wheelchairs handling characteristics are influenced by the position of the front castors.
3. Fit over the protruding bolts the new aluminium one piece block ensuring the correct orientation (see photograph)
4. Carefully using the extra high tensile M6 x 60 cap head bolt, push the top bolt through and out of the tube. Make sure the hexagonal adjustment piece remains in its original position.
5. Retain the top bolt with new M6 Nyloc nut.

6. The bottom screw is to be replaced using the same procedure as above using an extra high tensile M6 x 60 countersunk screw.
7. Retain the bottom bolt with the new Nyloc nut provided, ensuring that the hexagonal adjustment piece has not been disturbed.
8. Tighten all nuts and bolts carefully to a 17Nm torque setting.

References:

Below are the bolt specifications and a photograph showing the position of the fasteners on a powerchair with kerb climber bracketry fitted.



For more information please contact Medicare Technology on +44 1484 727301.

To download the latest Owner's Handbook with this information included please go to www.medicare-technology.co.uk/technical