



SPINERGY

SERVICE INSTRUCTIONS

Wheelchair
Handcycle
(read to bottom before starting)



WARNING!

These service instructions are intended for bicycle mechanics with prior wheel servicing experience. These instructions are not intended to be a tutorial on general wheel truing or hub service. We strongly suggest using an experienced bicycle or wheelchair service department for wheel repair and service.

TRUING & TENSIONING

1999-2003 SPOX wheelchair wheels:
(spoke nipples located at hub)

Tools required:

- Spinergy small spline tool (fig. 1)
- Spinergy large spline tool (fig. 2)
- Park Tools TM-1 tension meter (Fig. 6)

LX and SLX wheelchair wheels:

Tools Required:

- 1/4in. Open-ended wrench (fig. 5)
- Spinergy hex nipple wrench (fig. 3)
- Park Tools TM-1 tension meter (fig. 6)

2003- Present SPOX wheelchair wheels:
(Spoke nipples located inside wheel rim)

Tools required:

- Spinergy small spline tool (fig. 1)
- 1/4in. nut driver (fig. 4)
- Park Tools TM-1 tension Meter (Fig. 6)

Spinergy Stealth Handcycle wheels:

Tools Required:

- Spinergy small spline tools (fig. 1)
- 1/4in. nut driver (fig. 4)
- Park Tools TM-1 Tension meter (fig. 6)

Instructions:

SPOX wheelchair wheels: (fig. 7) First, remove tire/tube/rim strip on 2003-present model wheels. Tension spoke using 1/4in. nut driver for wheels with nipple located inside wheel rim (Older wheels with nipple located at hub, use hex or large spline nipple tool - depending on style of nipple). While tensioning spoke, use small spline tool to hold spoke stationary - do not allow spoke to rotate while tensioning nipple. Bring spoke tension to 20-22 on the Park Tools tension meter.

LX & SLX wheelchair wheels: (fig. 8) First, remove tire/tube/rim strip. Tension spoke using Spinergy hex nipple wrench (or 3/8in. nut driver). Use 1/4in. open-ended wrench (or pliers) to hold the spoke stationary - do not allow spoke to rotate while tensioning nipple. Bring tension to 24-26 on the Park Tools tension meter (~40 on WheelSmith).

Stealth Handcycle wheels: (same as fig. 7) First, remove tire/tube/rim strip. Use 1/4in. T-Wrench (not shown) to turn nipple. Use Spinergy small spline tool to hold spoke stationary - do not allow spoke to rotate while tensioning nipple. Rear wheels = 18-20 on tension meter. Front = 21-23 on drive side, and 10-12 on non-drive side.

Notes:

- For BEST RESULTS, apply a small amount of medium strength loctite (blue) to the threads prior to installing nipple.
- Spinergy wheels are hand tensioned and stress relieved before shipping.
- PBO spokes may feel under tensioned when compared to steel spokes. This is normal, and overtightening will risk damaging the rim.
- Over tensioning will void warranty.



Fig. 7



Fig. 8

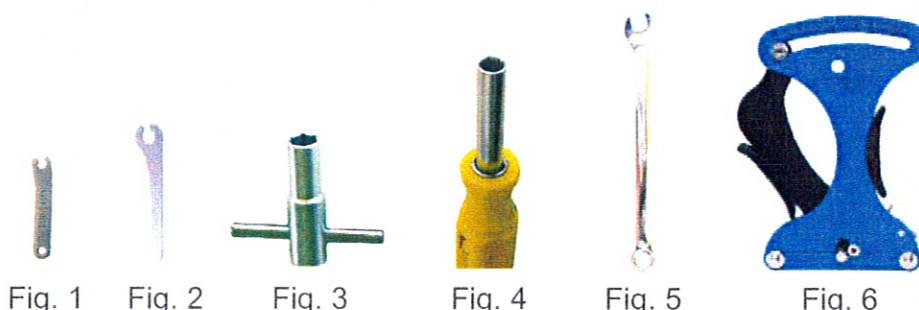


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6