

BREAK-IN SERVICE OF INDUSTRY NINE TORCH SERIES WHEELS

Following the first 1-4 hours of riding time on Industry Nine wheels, the spokes will require re-tensioning due to the bedding in of the spokes to the rim cavity. Following this initial service, spoke tension should be checked at regular intervals, corresponding with normal bicycle service intervals. The steps outlined below should ensure a continuing positive experience with our product. When removing the FH body be mindful of the pawls and springs, to ease service we use a non-captive system. We recommend removal of the FH body with the axle oriented vertically.

The use of one of the two mentioned tensiometers is the ONLY way to guarantee proper re-tensioning. Chronic de-tensioning of the wheel may occur if the wheel is not brought back to proper tension using the appropriate tools

- Place wheel in truing stand.
- Using 1/8 to 1/6 turns on the spokes, true the wheel normally, also taking care to maintain roundness, and checking dish using a wheel dishing gauge.
- NOTE at this stage that gross adjustments to trueness will also affect out-of-roundness.
- Once perfectly round and true, add ¼ turn tension to all spokes.
- Pre-stress wheel by hand-stretching parallel pairs of spokes around the wheel (EVENLY DISTRIBUTES SPOKE TENSION INEQUALITIES).
- Re-true and check roundness. Dish wheel if necessary using small (1/8-1/6 turn) increments to affected spokes. (HINT: Watch the threaded end of the spoke in the hub to minimize wind-up.)
- 32 spoke wheels check Drive Side (R)/Disc Side (F) tension using DT Tensio™ or Park Tools tensiometer*.
- 24 spoke wheels utilize an equilized tension system, so check both sides to ensure proper tension. Note the 8 spoke side will read a higher tension due to spoke gauge, but kgf applied on the rim is even.

Mountain wheels

Wheel Type/Spokes	DT Tensio Reading	Park Tensiometer Reading
Ultralite, Trail 24h/DS-R/NDS-F <i>2.7-2.9mm spoke diameter</i>	3.1-3.3	30-32
Ultralite, Trail 24h/NDS-R/DS-F <i>2.9mm spoke diameter</i>	3.85-4.05	33-35
Trail 32h, Enduro/DS-R/NDS-F <i>2.7-2.9mm spoke diameter</i>	3.2-3.4	30-32
Gravity/DS-R/NDS-F <i>2.8-3.0mm spoke diameter</i>	3.6-3.8	32-34
Crest 32F/DS-R/NDS-F <i>2.7-2.9mm spoke diameter</i>	3.1-3.3	29-31
Arch EX, Flow EX/DS-R/NDS-F <i>2.7-2.9mm spoke diameter</i>	3.2-3.4	30-32

Road wheels

Park Tensiometer only

l25TL (lg i-25TL)	12-14 (fr) / 15-17 (rr)
l35 (Reynolds Carbon)	11-13 (fr) / 15-17 (rr)
l45 (Reynolds Carbon)	13-15 (fr) / 15-17 (rr)
l65 (Reynolds Carbon)	13-15 (fr) / 15-17 (rr)

- The above deflections translate to 95-105 KgF on Industry Nine spokes.
- Please feel free to call or email us for verification of your readings!

*(We do not recommend the use of the WheelSmith™ tensiometer for Industry Nine spokes. This tensiometer registers outside of its range with our larger diameter spokes.)

-NOTE THAT *NOT ALL* TENSIONS WILL BE IN THIS RANGE, BUT A SAMPLE OF ALL DRIVE/DISC SIDE SPOKES SHOULD RETURN >80% IN SUGGESTED TENSION RANGE.

-ALSO NOTE THAT FRONT SPOKE TENSION MAY FALL IN THE LOW END OF THE RANGE, WHILE DRIVE SIDE REAR SPOKES SHOULD FALL IN THE HIGH END OF THE RANGE, DUE TO GREATER DISH.

Add tension evenly, 1/8-1/4 turn at a time on all spokes, until spoke tension falls in the proper range. Maintain Trueness, Roundness, and Dish following each cycle of tension addition.

Industry Nine wheels should require very few adjustments following this break-in maintenance. For further technical questions, please feel free to contact our technical department via phone or email: service@industry-nine.net