SPORTENZIA

USER GUIDE

TOOPRE SPOKE TENSION METER

Lever tool that measures spoke tension, on round or flat spokes, for mountain and road wheels, with a scale engraved from 0 to 50. Taking a reading, interpreting it, care and troubleshooting.

REF. TENSIOBLCK · MTB AND ROAD, ROUND AND FLAT SPOKES · ALUMINIUM AND STAINLESS STEEL



01 · GETTING STARTED

CONTENTS, PRINCIPLE, FIRST READING

In the box

- The spoke tension meter, ready to use: aluminium body, spring-loaded lever, pointer and a scale engraved from 0 to 50.
- The spoke key needed to retension a wheel is not included.

What the tool measures

The spoke sits between two fixed posts and a central post pushed by the spring. The tighter the spoke, the less it flexes, and the pointer stops at a higher value on the scale. This value is not a tension in kilograms: it converts with a conversion chart specific to the tool and the spoke. Without a chart, it is already enough to **compare the spokes of one wheel**.

Measuring a spoke

1. **Hold the wheel still** on the bike or in a truing stand. Number the spokes starting from the valve.
2. **Squeeze the lever** with one hand, against the body of the tool: the central post moves back and makes room for the spoke.
3. **Engage the spoke** between the fixed posts and the central post, halfway along, away from crossings, the nipple and the hub. Tool at right angles to the spoke, in the direction of use shown.
4. **Release gently** the lever, without jerking, then let go completely: no pulling or pressing during the reading.
5. **Read the value** once the pointer is steady, eyes square to the scale. Note it with the spoke number.
6. **Remove the tool** by squeezing the lever again, without sliding it along the spoke.

Specifications

Use	**Spoke tension**	Bikes	**MTB, road**
Spokes	**Round, flat, built wheels**	Scale	**Graduated 0 to 50**
Grip	**One-handed**	Body	**Anodised, sandblasted aluminium**
Spring	**Stainless steel**	Dial	**Laser engraved**
Width	**120 to 125 mm**	Height	**195 mm**

BEFORE YOU RIDE

- The lever is spring-loaded: keep your fingers clear of the posts when releasing it.
- A slack spoke or very uneven tension weakens the wheel: have it corrected before riding.
- Retension in small steps: an overtightened spoke can damage the rim or the nipple.

FOR RELIABLE READINGS

- Keep the tyre in the same state, inflated or not, from one set of readings to the next.
- Take two readings per spoke: if they differ, reposition the tool and start again.

02 · DAY TO DAY

INTERPRETING, TRUING, CARE

Interpreting readings

- Compare spokes on the same side of the wheel: on a sound wheel, their values are close.
- The two sides of a rear wheel, or of a disc front wheel, are not at the same tension: compare each side separately.
- A spoke well below its neighbours is slack; well above, it is too tight.
- To get an actual tension, use a conversion chart made for this tool, by spoke diameter and shape: our team can point you in the right direction.
- Always measure at the same point on the spoke and in the same position.

When truing a wheel

Record every value before touching the wheel. Then correct in small quarter turns, starting with the spokes furthest from the average. After each round of adjustments, measure again: tightening one spoke changes the tension of its neighbours.

If something goes wrong

SYMPTOM	LIKELY CAUSE	FIX
Spoke will not fit between the posts	Lever not squeezed enough	Squeeze the lever fully before engaging the spoke
Different readings on the same spoke	Measured near a crossing, tool tilted or held	Measure halfway along, tool square and released
Inconsistent readings on flat spokes	Spoke placed differently	Seat every spoke the same way between the posts
Large differences around the wheel	Bent wheel or damaged rim	Have the wheel checked before retensioning
Lever feels stiff or catches	Dirt between the lever and the body	Clean and dry the tool, without taking it apart



Lever squeezed with one hand: the central post moves back to take the spoke.

CARE

- Wipe the tool after use, especially the posts and the scale slot.
- Store it away from knocks: a bent post or body throws off every reading.
- Do not take apart the spring or the lever.

DO NOT

- Measure a bent, cracked or damaged spoke: replace it first.
- Compare spokes of different diameters or shapes.
- Use the tool as a lever or a spanner.

Measure before you tighten: a wheel with even tension stays true for longer.

Need help?

sportenzia.com/pages/contact

Our team answers your questions about taking and reading measurements.