VELKYNE

USER GUIDE

3/8" RATCHET WRENCH

10 mm (3/8") square drive, 200 mm handle, reversible direction: the wrench that takes bottom bracket and cassette sockets and the bike's bolts. Sockets not included.

3/8" SOCKETS (10 MM SQUARE) · 200 MM, 314 G · ALUMINIUM AND STEEL



What this wrench does

It drives any socket with a **3/8" (10 mm)** square: standard hex sockets, bike-specific sockets for bottom bracket cups and cassette lockrings, crank pullers with a 3/8" base. The ratchet works in small arcs without lifting the tool off, and the reverse switch changes direction in one move: loosen, then tighten, without changing wrench.

Using it well

1. **Choose the socket** that exactly matches the part, and push it **fully home** onto the wrench's square and then onto the part. A half-engaged socket rounds off the flats.
2. **Set the direction** with the switch on the back of the head, then check it unloaded: the wrench must drive the way you want and click the other way.
3. **Hold the head with one hand** pressed onto the part, and **pull** the handle with the other, in small arcs. Pulling protects your fingers if the part suddenly gives.
4. **Seized part?** Penetrating oil, a few minutes' wait, then a sharp tap of the palm on the handle rather than steady pressure.
5. **When refitting,** grease the threads, run the part up with the ratchet and **finish with a torque wrench** to the value marked on the part: a ratchet is not a calibrated tightening tool.

Care

- Wipe the wrench after use; a drop of light oil in the mechanism now and then.
- Store it dry. If it got rained on, dry and oil it the same day.
- A wrench whose ratchet skips must be taken out of service.

Specifications

Drive	**10 mm (3/8")**	Length	**200 mm**
Head	**31 mm wide, 16 mm thick**	Mechanism	**29.6 mm**
Weight	**≈ 314 g**	Material	**Aluminium alloy and steel**
Contents	**1 wrench, sockets not included**		

SAFETY

- Gloves and safety glasses: a socket or a part that lets go moves fast.
- Never extend the handle with a tube and never hit the head with a hammer: the mechanism breaks and the fragments injure.
- No final tightening with the ratchet on a part with a prescribed torque: torque wrench.

GOOD COMPANIONS

A set of 3/8" sockets from 8 to 19 mm covers the bike's usual bolts; a bottom bracket socket and a cassette socket in 3/8" complete the workshop.

02 · WORKSHOP

BOTTOM BRACKET, CRANKS, CARE

Pointers for the bottom bracket and cranks

- **First of all**: Remove the chain and the crankset, clean the bottom bracket: a socket only bites well on clean splines.
- **Loosening direction**: it depends on your bottom bracket standard. On an English (BSA) thread, the right-hand cup loosens clockwise, the left-hand cup anticlockwise. If in doubt, check your bottom bracket's documentation before forcing.
- **Torque**: marked on the cup or the crank, or given by the manufacturer. As a reference only: bottom bracket cups 35 to 50 Nm; crank bolts as per the manufacturer. The value marked on your component always takes precedence.
- **Leverage**: 200 mm is enough for a properly greased bottom bracket. If more is needed, it is seized: penetrating oil and patience, no extension.

If something goes wrong

SYMPTOM	LIKELY CAUSE, FIX
Socket slips on the part	Socket too large or not fully engaged. Flats already rounded: switch to a new six-point socket, never a worn one.
Ratchet skips under load	Mechanism dirty or worn. Clean, oil; if it still skips, replace the wrench.
Reverse switch does not hold	Dirt in the mechanism: clean and oil lightly.
Nothing moves	Reversed thread on this side of the bottom bracket? Check before insisting.

On video

Independent tutorials on removing a crankset and a bottom bracket, scan to watch.

Hollowtech II bottom bracket removal and installation
restoration dot bike · English

Replace A Shimano Hollowtech Bottom Bracket On A Bike
MadeGood Bikes · English

Need help?

velkyne.com/contact
Our team answers your questions about use and compatibility.

Torque, but not any old way.
Socket fully home, head held, handle pulled. And the last word always goes to the torque wrench.