

TORP Motor

TM25

DESCRIPTION

Set Up the Motor

The TM25 is built for the SurRon Light Bee and TORP controllers (TC500 and TC1000 / encoder version). It can also run with other aftermarket controller brands (hall version). To check compatibility with other brands, contact that controller's manufacturer.

⚠ **The pulley nut on the TM25 motor turns anti-clockwise.** On the stock SurRon motor it turns clockwise. If you ever remove or re-tighten it, hold the rear brake and torque it (anti-clockwise) to 40-50 Nm.



After the motor is on the bike and connected to your TORP controller:

1. Connect to the TORP Controller app.
2. Open the 5th screen of the app and go to CALIBRATION.
3. Start the SETUP WIZARD and pick TM25 from the list.
4. Follow the wizard to the end.

CARE GUIDE

Looking After the Motor

⚠ **Always take the battery out of the bike before you inspect or work on the motor.**

Keep water out

- Never point a pressure washer at the motor. High-pressure water gets past the seals and damages the motor inside.
- Do not wash the motor while it is still hot.
- Do not ride through streams, rivers or flooded trails, or anywhere the motor goes under water.
- Clean the motor gently with a damp cloth.

Check the bolts and wiring

- Keep connectors and wiring clean and dry, especially after wet, sandy or muddy rides.
- Before plugging a connector back in, check it and clean out any dirt. Make sure the rubber seals are still inside and sitting properly.
- Vibration loosens bolts over time. Every few rides check that the motor bearings, motor case, encoder cover and pulley nut are tight. Use thread locker such as Loctite Blue if you need it.
- If you take the encoder cover off, make sure all four black seals go back in - one large O-ring and three small ones.

Use a belt, not a chain

TORP motors are designed for belt drive only. We recommend an aftermarket carbon belt such as GATES. Check the belt's condition and tension before every ride, a belt that is too loose or too tight wears out early.

	Belt (recommended)	Chain
Maintenance	Check condition and tension regularly.	Check and re-tighten before every ride, and lubricate regularly.
Wear	Made for high torque, so it lasts longer.	Wears out faster and can snap if it is neglected.
Noise	Quiet and smooth.	Noisier, with more vibration.
Effect on the motor	Normal load on the shaft and bearings.	Extra stress on the shaft and bearings: faster wear, more heat, internal noise.
Watch out for	Correct tension.	Correct tension, plus the connecting link - fit it properly or the chain can fail.

Need help? Contact us through the support form at torpmotors.com/contact, or in the Contact section of the TORP website.