

Electric Bikes & Scooters

Documentation for CEMOTO commuter, mountain, fat-tire and folding eBikes, plus the EM11 three-wheel scooter.

Which model do I have?

CEMOTO's eBike line is sold under several overlapping naming conventions. The table below maps the store listing to the name printed on the product.

Store listing	Also known as	Category
cemoto-eb40-electric-city-commuter-bike	EB40	Step-thru city commuter
aeb31-city-commuter-eBikes	AEB31A	Step-thru city commuter
cemoto-eb28a-emountain-bike	B28 / EB28	27.5" mountain eBike
cemoto-fat-tire-eBike-eb28a	B28A / AEB28A / EB28A	High-step fat-tire eBike
fat-tire-mountain-eBike	B28D / EB28D	26" folding fat-tire mountain eBike
eb66-harley-like-hi-tech-eBike	EB66 / B66	Motorcycle-styled fat-tire eBike
—	B57A	Folding eBike (manual only)
—	EM11	Three-wheel scooter (manual only)

“ **Why the naming is confusing:** the same physical bike appears in the store under a marketing name (EB40, EB66) and in internal/manual naming (B28A, AEB28A). Where the manuals use a different designation from the store listing, this documentation notes both.

Model line-up

Tap a model to open its full specification page.

EB40 EB40	AEB31A AEB31A	B28 B28	B28A B28A	B28D B28D	EB66 EB66
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Model line-up at a glance

Model	Motor	Battery	Top speed	Wheels / tires	Brakes
EB40	750W BLDC	48V 15Ah	20 mph	26×1.95 KENDA	Hydraulic disc
AEB31A	Not published	Not published	Not published	Not published	Not published
B28	500W brushless	48V 13Ah	20 mph	27×2.35 all-terrain	Disc
B28A	750W BLDC	48V 15.6Ah	20 mph	26×4.0 CST	Hydraulic disc
B28D	750W (1,500W max)	48V 15.6Ah	20 mph	26×4.0 CST	Hydraulic disc
EB66	750W BLDC	48V 15Ah ×1 or ×2	20 mph	20×4.0 KENDA	Tektro disc

“ **Top speed.** Every CEMOTO eBike ships configured to a **20 mph maximum**, the U.S. **Class 2** limit. Some models can be set higher through the display's speed-limit parameter — the [P-Setting Guide](#) covers this. A higher setting may take the bike outside the Class 2 definition, with consequences for where it may legally be ridden, and for insurance. See [Riding Laws & Compliance](#).

Shared platform characteristics

Most CEMOTO eBikes share a common component set:

- **Drivetrain** — SHIMANO 7-speed derailleur gearing.
- **Charger** — 54.6V 2A, **UL-listed**, which is the correct charger for a 48V (13S) lithium pack.
- **Frame** — 6061 aluminum alloy on most models (the EB66 uses carbon steel).
- **Load capacity** — **120 kg** on every model with a published rating.
- **Display** — color LCD, 4 inch, on most models.
- **Fork** — alloy suspension, "Lo" travel designation.

Documentation by model

Model	Page	Manual
EB40	EB40 City Commuter	See eBike Manuals
AEB31A	AEB31A City Commuter	See eBike Manuals
B28	B28 Mountain eBike	See eBike Manuals
B28A	B28A Fat Tire eBike	See eBike Manuals
B28D	B28D Folding Fat Tire	See eBike Manuals
EB66	EB66 Dual Battery	See eBike Manuals
B57A	—	B57A User Manual (PDF)
EM11	—	EM11 User Manual (PDF)

eBikes vs. D-series dirt bikes

These are different product categories with different rules.

	eBikes (this section)	D-series dirt bikes
Intended use	On-road and improved trail	Off-road, private land and closed tracks only
Legal status (US)	Designed to Class 2 limits	Not street-legal
Pedals	Yes — throttle + pedal assist	No — footpegs and twist throttle
License/registration	Generally not required for compliant Class 2 use	Varies; often requires registration and a license for off-road vehicle use
Helmet	Strongly recommended; required by law in many jurisdictions	Mandatory

Do not assume that guidance written for one category applies to the other. In particular, **D-series dirt bikes must not be ridden on public roads.**

Safety fundamentals

The B57A owner manual — which covers the shared CEMOTO eBike platform — sets out the baseline rules that apply across the whole eBike range:

Before every ride, check the bike, brakes, tires and screws/nuts for tightness.

- **NEVER** carry a passenger on the electric bike.
- **NEVER** modify the electric bike with unapproved accessories.
- **NEVER** ride through deep water.
- **NEVER** perform wheelies, jumps or trick stunts.
- **AVOID** riding in the rain for long periods of time.
- **AVOID** water contact with the motor and electric lines.
- **ALWAYS** keep both hands on the handlebars.
- **ALWAYS** apply brakes lightly when riding on rocks or loose surfaces.
- **ALWAYS** use caution when going through puddles.
- **ALWAYS** inspect the electric bike before each ride to ensure a safe ride.

Who should not ride: young children, pregnant women, and anyone with vision, balance or other problems that would prevent them from riding a bicycle. **eBikes are single-rider vehicles** — only one person at a time.

Intended terrain: eBikes are for **on-road or improved-trail use only** and should not be used for riding rough trails. Damage may occur if used off road.

Alcohol and drugs: do not operate the electric bike after consuming any amount of alcohol or taking any drugs.

Helmets: the manual specifies that the correct helmet should be comfortable to the rider, lightweight, well ventilated, fit snugly, and cover the forehead. Learn and observe all road rules for the area where you ride, including always wearing an approved helmet.

Chain tension: approximately **15 mm** of slack. To adjust, loosen the rear axle nuts, adjust the chain tightness screw until slack is correct, then tighten the rear axle screw.

Wet-weather braking: in rain or snow, braking distance increases. At 20 km/h the wet braking distance should not exceed 15 m. Adjust the brakes frequently and replace brake pads in time.

Electrical elements: the electric components can only be cleaned on the outside. There is no need to maintain the inside — and opening them voids the warranty on those parts.

Related pages

- [eBike Manuals](#)
- [D-Series Electric Dirt Bikes](#)
- [Getting Started](#)
- [Maintenance Schedule](#)
- [Battery Care & Charging](#)
- [Riding Laws & Compliance](#)

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