



NYSTRÖM

User Manual

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Unboxing the bike

When you get your bike delivered it is not fully assembled. You will need a few tools to assemble the bike:

15mm open end spanner

hex tool

Remove the bike from the box and remove any wrapping.

In the box you will also find:

User manual

Pedals

Charger

Note that the pedals are not equal right and left. One side is lefthand threaded the other is righthand threaded. The pedals thus only fits on one side.

Carefully thread the pedals onto the crankarms by hand. When you are sure they are the correct thread, turn them in by hand all the way.

Now use the 15mm open end spanner to tighten the pedals.

Install the steering handle bar by first removing the four hex bolts and top piece. Now position the steering handle bar on the front fork. Put the top piece in place and insert the four hex bolts. Lightly tighten the hex bolts. Now adjust the angle of the steering handle bar to suit your needs. Tighten the four hex bolts a bit at a time alternating between the bolts. Tighten the hex bolts enough so it is not possible to move or angle the steering handle bar.

Pump up the tires to your liking. Do not use more than 4 bar pressure. Less pressure will give you a softer ride.

Quick start

Charge the battery

Plug in the supplied charger in a suitable electrical outlet.

Connect the charge plug to the bike. You will find the charge port on the underside of the battery tank. The charge plug is keyed so it can only be connected the correct way.

When the charger is connected it will illuminate as follows:

Red steady:	Standby
Orange flashing:	Precharging
Orange steady:	Main charging
Green flashing:	Final charging
Green steady:	Fully charged
Red flashing:	Abnormal

The charging will take a few hours.

Adjusting the saddle

Using a hex tool, loosen the saddle clamp bolt and adjust the saddle position to your liking. Retighten the bolt.

Before first ride

Read this manual and be sure you understand how this bike functions.

Disconnect the charger from the bike.

Make sure there is air pressure in the tires.

Roll the bike slowly forward and depress the brake handles one at a time. Ensure that the brakes function properly.

Insert the key on the left side of the battery tank. Turn the key to the horizontal "on" position. The bike is now energized and ready to ride.

Riding the bike

Ride the bike carefully to get used to it. Try out the brakes as well, they are quite powerful and must be used as appropriate.

The bike has two gears, hi and low. To ease gearshifting, slightly relax or briefly stop pedalling, the gears will then shift easily.

Using only the thumb throttle will activate the "walk mode" which runs the bike at 6km/h. This can be useful also when starting in an upslope.

When pedalling, the bike will be electrically assisted up to 25km/h, above that you will have to pedal by yourself without electrical assistance.

When you park the bike, turn the key to the vertical "off" position before removing the key.

If you forget to turn the key "off", the electrical system will automatically shut down after 30min of inactivity. To reactivate, turn the key vertical "off" and then back to horizontal "on".

Normal bike service

Tires

The tires are Schwalbe Fat Frank 26"x2.35". They are available from your Nyström retailer or at many bike shops.

Replace the tires when they get worn.

If you need to replace or repair a flat on the rear tire, proceed as follows:

- Put the bike upside down or in a bike stand. Avoid damaging the brake handles, shifter and thumb throttle.
- Take note of how everything is installed (a picture may help).
- Release the air pressure from the tire.



- Remove the four bolts holding the axle washer plates at the rear axle.
- Remove the plastic cap from the left axle nut.
- Remove plastic straps (if installed) holding the motor electrical wire.
- Remove the chain tensioner.



- Loosen the right and left axle nut, but keep them on the axle.
- Carefully lift the rear wheel a few inches. Do not pull out the electrical wire from the frame tube. Unhook the chain from the rear sprocket. Loosely set the rear wheel back in its place.



- Now carefully remove the rear tire and inner tube. Pull them off to the "chain side".

- Carefully lift the rear wheel a few inches. Do not pull out the electrical wire from the frame tube. Remove the tire and inner tube. Loosely set the rear wheel back in its place.
- Replace rear tire and inner tube.
- Install in reverse order.
- Doublecheck that you have installed and tightened the two axle nuts and the four bolts holding the axle washer plates.
- Note that the chain tensioner wheel is excentric mounted on the holder. Turning the unit will tension or loosen the chain as required. The unit can also be moved up or down in the bolt slot to tension or loosen as required.
- Position the motor wire as it was before removal and install new plastic straps if needed.
- Pump up the tires to your liking. Do not use more than 4 bar (59 psi) pressure. Less pressure will give you a softer ride.
- Test the brakes before riding the bike.

Brakes

The brakes are Magura MT5e hydraulic disc brakes.

The brakes are vital for your safety, only competent persons may service or replace the brake components.

Replace discs and pads when they get worn.

Chain

The chain benefits from normal chain maintenance.

Clean and lubricate as required.

Gearshift

The gearshift mechanism will benefit from periodical lubrication.

The gearshift wire is lubricated with standard wire lube.

The gearbox itself is lubricated with MoS2 lube via a bolthole in the right face of the crankset. Use a syringe for easy lubricating. Lubricating should be done if the gears sound rough or otherwise once a year.

Repair and spare parts

Most repairs can be done at any bicycle repair shop, regarding the standard bicycle components.

Any repairs involving the electrical system must be performed by a Nyström authorized facility, please contact your Nyström retailer for details.

All necessary spareparts are available from your Nyström retailer, and many standard parts are available at many bike shops.

Electrical system

The electrical system in your Nyström bike is carefully designed and manufactured using very high quality components. It is designed with both safety and performance in mind.

Battery

The battery is of Li-Ion type, using 18650 cells.

The battery is fully enclosed and is safely managed by a battery management system, which provides the relevant safety features.

The battery cannot be serviced or modified by the user or any other person.

Charger

The charger is supplied together with the bike and is specific to this bike.

Charging an empty battery takes about 5 hours, normally the battery will not be empty so the charge time will be less than 5 hours.

If you should require a spare charger they are available at your Nyström retailer.

The charger has an indicator light:

Red steady:	Standby
Orange flashing:	Precharging
Orange steady:	Main charging
Green flashing:	Final charging
Green steady:	Fully charged
Red flashing:	Abnormal

The charger must not be used in wet or moist conditions.

Charging a battery in cold temperatures (less than 0deg C) may not work or not be optimal. In this case move the bike to a warmer place, let it warm up for an hour, then charge the battery.

Motor

The motor is a brushless type with an internal gearing. This combination is very efficient and allows for high torque of the motor.

Controller

The motor controller is a Field Oriented device which ensures high efficiency and smooth operation.

Lights

The front light is supplied with a H4 LED bulb which is very energy efficient and long lasting. The front light is switched on by a switch on the left forward side of the battery tank. The front light only works when the bike is energized (key to "on" position).

The bike is not supplied with a rear light, the rider may choose any type of battery powered rear light.

Technical specifications

Model: Nyström Special

Frame and fork material: Chromoly steel

Weight: 32kg

Maximum rider weight: 110kg.

Maximum cargo load on rear rack: 25kg.

Brakes: Magura hydraulic disc. Front 203mm, Rear 180mm

Gear system: 2-speed planetary

Drive system: Rear wheel drive 250W;25km/h

Battery: 48V 760Wh Li-Ion

Charger: 48V 3A

Legal requirements

Certified according to:

EN 15194:2009+A1:2011



Safety information

To safely use this bike, please note the following:

All persons using this bike must be aware of how it functions before use.

It is recommended to use a helmet when riding this bike.

Please observe any local regulations regarding riding an electric bike.

Only use the supplied charger or a charger approved by Nyström to charge the battery.

Do not use this bike if it is defect or has any defect components.

Do not modify any of the bike components.

Do not replace any bike components with other than Nyström component or Nyström approved component.