Bicyclette Électrique

Manuel d'entretien et d'identification

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Preface

Dear customers,

Thank you for choosing our Electric Bicycle You.would definitely have much joy and pleasure with it Pedelec stands for Cycle, an electric bicycle that provides power to the rider up to around 25 km/h These electric cycles apply to standard bicycle regulation and therefore require no registration or insurance. You do not need a licence to operate this vehicle and you are allowed to ride it on all bicycle paths.

Before you operate this Electric Bicycle (so called E-Bike) for the first time, we strongly recommend you to read through this service manual mindfully.

For your safety and consideration, please pay special attention to these signs Please remember that an E-Bike is a transportation vehicle and it would serve you well only when you provide it with care and maintenance.
You shall find all the appropriate maintenance instructions in this service manual.

All explanations and images that the manual includes, regardless in any form, can not be put in a claim. Errors and construction changes remain excepted.

Best regards

Raleigh Canada Limited

afety Instructions

- two interdependent, functional, brakes,
- one audible bell,
- one headlight,
- one taillight,
- spoke reflectors and rim reflective tapes respectively,
- pedal reflectors,
- front stand-light (if not integrated already in the headlight),
- rear stand-light.

Please check in advance before each riding the functions of the brakes and the lights. Attention! The reverse pedal brake will not work with loosened or defected chain!

Please do not try to repair any bended, twisted, safety-related parts such as frame, fork, handle bar, stem, saddle, seat post, brake joint, brake lever, and foot pedal, but to replace them immediately.

For safety reasons, repair on the braking system should be carried out by professional repairmen.

For your safety reasons, please pay special attention to the following points.

- Although helmet equipping is not required by law during riding ,we strongly recommend you to do so.
- Please dress in firm clothing during riding. Wearing noticeable, bright -coloured clothing would bring you more attention from other motorists and cyclists on roads. (Reflective clothing is strongly recommended).
- Please ride with extra care in bad weather (fog, snow, black ice). Keep in mind that bad weather conditions could cause weakening in brakes and dynamo functions.
- Please do not switch on the dynamo when in riding motion. It could cause you to fall and injure yourself.
- Please always ride with the light on at night or under bad visibility condition!
- The maximum weight allowed on E-Bikes is 100kg. Please keep in mind that the total weight when connected to a trailer is also not allowed to exceed 100kg.
- Please find the maximum load-weight information of the carrier on the imprint stated on the carrier.
- The maximum load-weight for the basket is 5kg Any more weight added could cause breakage!

Guarantee / Warranty

Regulated Usage:

hese E-Bikes are made based on the concept and configuration for public street sage. For this reason, the required and safety-regulated terms would be provided, nd must be checked, and refurbished if needed, by the user and specialists on a gular basis. The manufacturer and retailer can not be held liable for any injuries the users and damages on E-Bikes caused by usages that are non-compliant ith the safety regulation stated in the instruction manual. These non-compliant nditions apply particularly to the usage of these E-Bikes in country grounds, in ort competitions, in weight-overloading conditions, and in improper remedial defects conditions. The following maintenance and operation manual describes e ways of usage that are compliant with the regulations.

Warranty Provisions:

It is guaranteed a state-of-the-art accuracy in materials and manufacture of this E-Bike during the compulsory warranty period (24 months from the date of purchase). This liability is filled by our repair and service of the E-Bike.

The inspection of failures and their causes would always be carried out by our customer service specialist and it includes:

- repair or replacement of defected components
- hours of work
- spare-parts for the repair work of frameworks under warranty

The replaced parts would be in our possession.

2. With valid warranty claim, all the costs of shipping, disassembly, and assembly would be born by us. The warranty claim is verified through the submission of E-Bike's receipt.
3. The user is obligated to make sure that the E-Bike is not used to serve any other purpose from those mentioned in the instruction manual (confer Regulated Usage).
4. When the parts on the E-Bike are changed or replaced with other parts different from those mentioned in the instruction manual, the warranty is automatically ceased.
5. Things that are not covered by the warranty are:

- consumable items which are not part of the repair work of acknowledged failures.
- all maintenance or miscellaneous work, caused by wear and tear, accidents, and bad operating conditions such as disregarding manufacturer's instruction during riding.

incidents, such as noise emissions ,vibrations ,wear and tear ,and etc ,which not affect vehicle's health and ride quality adversely.
mage which are caused by:
arts installation made on the E-Bike by external party or by the efforts of user erforming repair by his own.
on-substituting parts from the original spare-parts
amages as a result of stone-chipping, hails, road salt, factory fumes, lack of naintenance, inappropriate care-products, and etc.
its and parts that are subjected to deterioration, abrasive wear and tear, or nsumption (apart from faulty material or manufacture respectively), such as:

tires	- cables	- illuminant	- fuses
tags / stickers	- brake system components	- battery	- kickstand
saddle	- chain	- sprocket	- hand grips

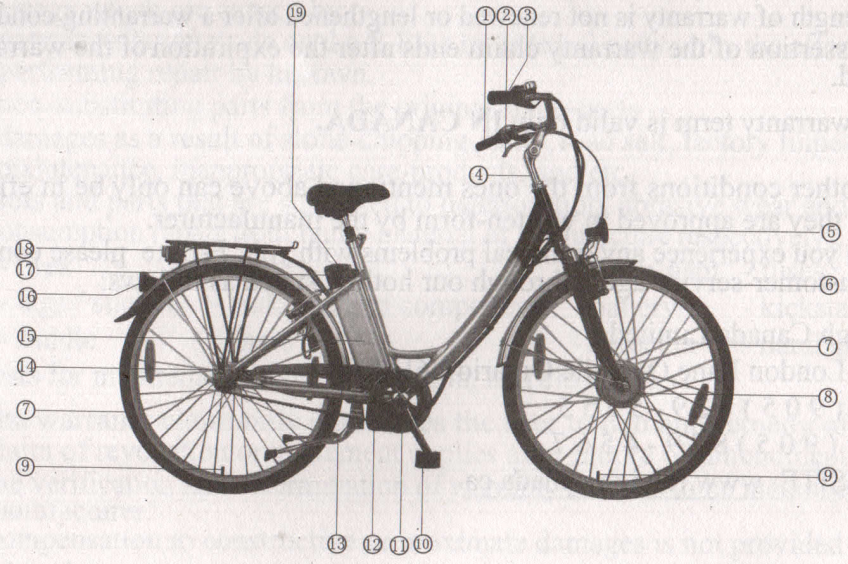
sts for maintenance work, inspection, and cleaning.

e warranty claim only authorizes the user to demand remedy of defects.
aim of revocation or abatement applies after failure of amendment.
e verification and determination of warranty claim is to be incumbent on the nufacturer.
mpensation to constructive or proximate damages is not provided by the rranty.

9. The warranty claim is only taken into account ,when you notice us immediately after the discovery of the sign of defects.
10. The length of warranty is not renewed or lengthened after a warranting conduct. The assertion of the warranty claim ends after the expiration of the warranty period.
11. The warranty term is valid only **IN CANADA.**
12. Any other conditions from the ones mentioned above can only be in effect, when they are approved in written-form by the manufacturer.
13. When you experience any technical problems with your E-Bike please contact our customer-service agent through our hotline stated as follows:

Raleigh Canada Limited
2124 London Lane,Oakville Ontario L6H 5V8
TEL: (9 0 5) 8 2 9 - 5 5 5 5
FAX: (9 0 5) 8 2 9 - 4 5 6 7
WEBSITE: www.raleigh-canada.ca

omponent Description



am view – factual setting can vary!)

(1) handlebar for power control
(2) brake - lever
(3) handlebar for gearshift
(4) stem (angle adjustable)
(5) front light
(6) V - brake
(7) tires
(8) motor
(9) alloy rim valve
(10) right crank
(11) chain ring with left crank/ bottom bracket
(12) motor control unit
(13) chain case
(14) back - pedalling brake hub
(15) Lithium - ion battery
(16) rear reflector
(17) battery charging socket
(18) diode rear - lamp with automatic stand - light function
(19) battery charge status display

nitiation

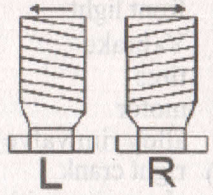
efore the first initial operation, please pay special attention to the following things:

Please read the instruction manual mindfully through!

Please fully charge the battery absolutely before the first initiation! Refer to the battery-charging section stated in p.27 of this manual.

Remove the protection film on the illumination to activate the battery.

Please mount on the pedals provided. Please note that the pedal marked with "left" must be mounted on the left side of the E-Bike facing the driving direction ,and vice versa. Please note furthermore that the right-side pedal must be fastened by clockwise motion and the left-side pedal by counter-clockwise motion.



L=left-handed thread
R=right-handed thread

When the pedals are exchanged ,it could cause damage to the screw threads in cranks and a possibility of pedals breaking off during riding ! Risk of breakage! (No warranty coverage would be provided in this case!)

Please conduct "setting / adjustment" stated in the following section.

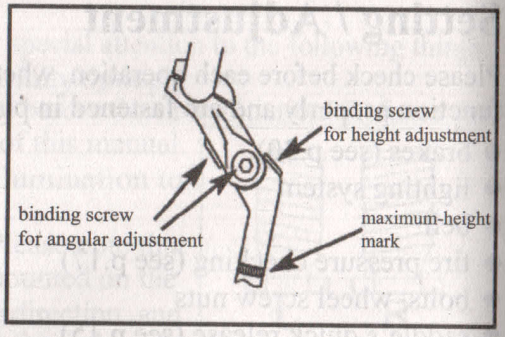
Setting / Adjustment

Please check before each operation, whether the following mentioned components function properly and are fastened in place:

- brakes (see p.30)
- lighting system
- bell
- tire pressure checking (see p.17)
- bolts, wheel screw nuts
- saddle's quick release (see p.15)
- saddle (see p.15)
- handlebar (see p.14)
- dynamo (see p.16)

andlebar

adjust the height of the handlebar, sen the binding screw with a 6mm len key (hexagon socket wrench). u can then raise the stem up till the ximum height allowed.



The safety line engraved on the stem indicates the maximum height allowed for adjustment! Risk of breakage and fall! (No warranty coverage)

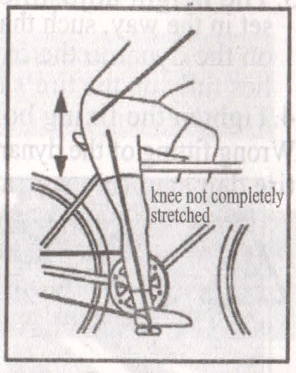
er selecting the desired height of adjustment, tighten the binding screw nly. Please sit on the E-Bike to check for the most comfortable position. reover, you can adjust the angle of the stem to your desired setting To ust the angle of the stem, loosen the lower binding bolt on the side with a m Allen key, turn the handlebar to the desired position, and fasten the screw t subsequently.

Quick Release

The quick release locates on the top of the seat-tube. Please make sure before each operation that the quick release is firmly tightened! To adjust the quick release, first loosen the lever of the quick release. Second, pull up or push down the saddle to the desired height. Third, turn the screw nut of the quick release in clockwise direction to fasten. And lastly, push the quick release lever with some force back to its initial position.

Saddle

The saddle height is appropriately positioned, when by sitting the legs are not completely stretched, and that the feet can bear on the pedals comfortably. The toes must be able to touch the ground.

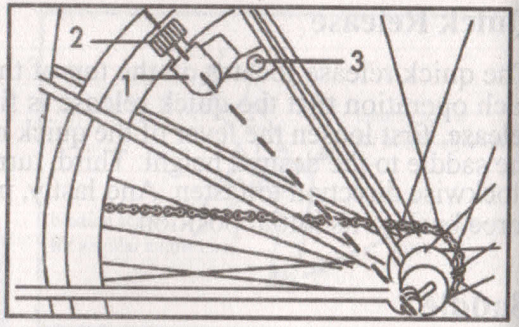


The seat post can only be raised to the maximum-allowed-height engraved on the seat post. Risk of breakage and falling! (No warranty coverage)

ynamo

he lighting system is activated by the vitch-on of the dynamo. Please note e following procedures for adjusting e dynamo:

Loosen the fixing bolt (3).
Align the centre axis of the dynamo with the wheel axle (1).
The height adjustment should be set in the way, such that by switching on the dynamo the friction gear (2) lies fully on the tire's dynamo-tread.
Tighten the fixing bolt (3).
rong fitting of the dynamo could cause e damage! (No warranty coverage)



Chec k for dynamo's fastening regularly. Do not turn off the dynamo during riding! Risk of accident!

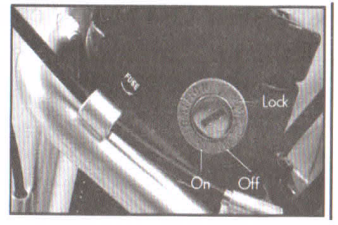
Tire / Tube

The E-Bike is equipped with tires in size 47-622 (28 x 1.75). On both sides of the tires you would find reflective stripes. Hence the spoke-reflectors are not requisite.
The optimal tire pressure lies between approx. 2.5 to 3.5 bar (or 36-50 PSI). With too little pressure it could cause faster tire penetration and damages to the rim; moreover, you could expect increased tire wear-out and reduced cruising range of E-Bike. The handling performance of the E- Bike during turning could be impaired as well.

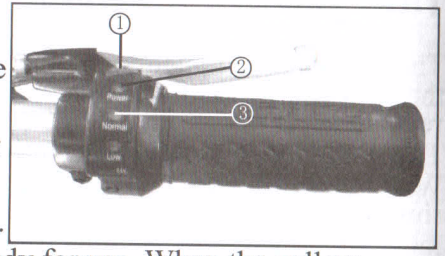
Please do not over-pump the tires, which could cause tire bursting! Risk of accident!

Service

For first riding, we recommend you to try out the E-Bike on a lightly trafficked route or at a parking lot to get acquainted with the feeling of the front and rear brakes Ride in the road traffic only after you feel confident operating the E-Bike.



Throttle-Drive-System



Insert the key into the power/lock keyhole on the battery box and turn the key to the position ON to activate the electric power supply. The green indicator light (2) (full) on the right turning bar should then go on. There with it signals that the battery is ready for use. When the yellow indicator light (3) (empty) goes on, it signals that the battery power is low and that it needs to be recharged.

Electric bike which means that when you have pedaled the bike up to a speed of 5KPH you can turn the throttle located at the right hand grip. This will engage the motor up to a speed of 25KPH. Any speed above 25KPH the motor will not work. You may pedal and use the electric motor and Conserve energy or you may use the motor only."

- There is a display on the top of the battery case which shows exactly the power capacity level . The display is activated by pushing the orange "power" button The.battery possesses the full capacity when all 4 green indicator lights are on. The power display shuts itself off automatically shortly after.
- The E-Bike is not suited for miles-long uphill riding .Thereby can the motor be overheated and damaged. If the E-Bike, though given the full throttle, moves with crawling speed or stands still even, release the turning bar to idle position immediately!
- Under a low battery power condition, the motor runs unsteadily and even starts to "splutter". In this case, please shut off the Pedelec-Drive-System, in which you turn the ignition key to the OFF position. You can then continue to ride without the motor support.
- After riding, turn the ignition key to the OFF position and then pull out the key. The security lock of the battery is activated in this case, which that the battery can not removed from the bike.

Important! Please do not turn the key to LOCK position when you plan to leave the E-Bike unattended! The security lock of the battery in LOCK position is unlocked and the battery can be removed from the bike! Risk of theft!

uising Range

almost impossible to provide an exact range information, since there are so ıy influential factors:

- charging condition of battery
- tire inflation / pressure
- weight of rider and load
- road inclination
- road-surface quality
- choices of mode (Manual or Economic)
- wind condition
- deployed pedalling force
- age / use of the battery
- surrounding temperature
- night riding (dynamo)

ıse note that the range and capacity of the battery depends relevantly on the ient temperature. When the temperature is below 0 °C, there will be a larger ver drop to the battery.

an approximate benchmark, it is reckoned a 30km to 40km cruising range a medium pedalling support ,an optimally charged battery, and under general ditions. Through aging of the battery would the maximum cruising range be ıced.

: To have a higher cruising range, ride either completely in E-Mode or do not stantly engage the motor support in M-Mode, but only use it when riding ill or headwind condition.

ıse make sure that the tires always possess enough tire pressures. (See section tube on p.17)

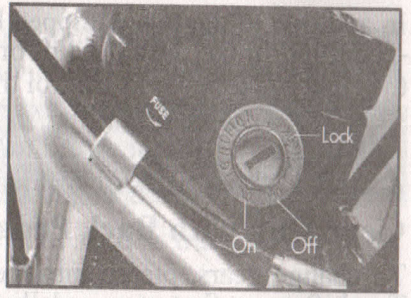
Battery

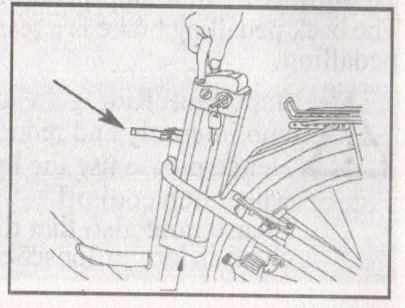
In your E-Bike there locates a Lithium-ion battery which provides electrical power to the motor and the control system. However, the lighting system receives its power exclusively from the dynamo and does not feed on the battery.

In order to remove the battery from the bike, you must first remove the saddle together with the seat post. For this you must first loosen the quick release (indicated by the arrow) and then pull out the saddle and seat post from the seat tube. Afterward ,turn the key to position LOCK by first pushing it in lightly and turn it to the left. The battery can now be withdrawn by pulling it up with the carrying handle.

The reassembly is carried out through reversed sequence. Keep in mind the adjustment and safety hints stated on p.15 of this manual.

Please pay absolute attention to battery service section at p.27 of this manual!





ndbrakes

addition to the two equipped handbrakes, the E-Bike also comes with a back dalling-brake. Use the left brake lever to control the front wheel brake and right brake lever to control the rear wheel brake.

Please note that the equipped V-brakes come with very good braking power. Please take them into consideration for contingent emergency braking! Risk of accident and injury!

ear Hub with Back Pedalling Brake

change gears, please turn the gear shifter on the left side of the handlebar. shift gear, first stop pedalling and then turn the shifter to the desired gear. back pedalling brake is a rear wheel brake, which can be engaged by backward alling.

Important! Riding downhill for a long time could heat up the rear wheel hub intensely and reduce the braking power!
Hence please use the left or right hand brakes alternately to let the rear wheel hub cool off.
Please note also that the back pedalling brake is ineffectual when the chain is torn or loosened.

Lighting

The E-Bike is equipped with a front and rear lights, both with stand-light function. The light system is activated by the switch-on of the dynamo. When the riding stops, the front and rear light automatically go off, and the stand-lights go on shining bright light for a couple of minutes.

Carrier

If possible, secure your carriage by installing devices such as transporting bags, transporting basket, or a tension device.

Please note that the maximum loading weight of the carrier must not be exceeded! Risk of breakage!
Please do not carry any person or animal on the carrier!

Maintenance

eneral Maintenance Remarks

regular maintenance habit guarantees you a longer durability and roadworthy te of your E-Bike. Maintenance includes cleaning, lubricating, and ride-setting justment. Moreover, regular carried-out maintenance work is a requirement the sustainability of warranty claim. This applies to special corrosions (surface st) and other damages, which, by non-observance, would not be undertaken us. Thus, please read through the following section thoroughly.

ease only use the gentle cleaning materials to clean the E-Bike. And in no case, not use any high pressure washer or vapour cleaning device for dirt removing!

ean the E-Bike regularly with a sponge or a cloth and apply bike-caring products after cleaning.

ease note that under certain environmental conditions (ex. by the seaside), the Bike should be cleaned more often to reduce chance of rusting.

Battery

The performance of the battery depends on its age, use, and its care. The full capability of a new battery will be achieved after approximate 2-5 charging.

Lithium-ion batteries differ from other battery types in that Li-ion batteries have a much lower self-discharge rate. Self-discharge rate is the rate how battery diminishes in its capacity through time. Hence, please recharge your battery for 2 hours no later than every 3 months when it is left unused.

Please avoid absolutely the storage of battery in an empty state, as the enterochromaffin cells in the battery could be damaged and ruined (deep discharge). (No warranty coverage!)

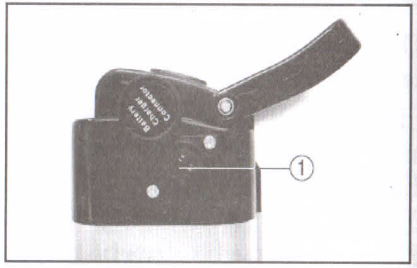
To extend the durability of the battery ,we strongly recommend you to charge your battery aft er every usage.Note: The memory-effect does not occur within Lithium -ion batteries.

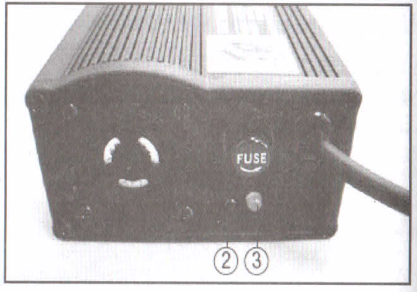
Please do not throw the battery into fire or lay it in the microwave!
Please do not ever open the battery case or the charger! (The warranty is claimed void with the opening of the battery case or the charger)
Charge the Li-ion battery exclusively with the provided charger!
The charger is an internal appliance and therefore is affiliated only to a current supply of120V/60Hz! Risk of danger!
Please supervise the charging if possible!

ou can charge the battery either in an egrated state (on the bike) or a disintegrated te (removed from the bike). Plug the arging connector into the charging socket on the battery case. Subsequently, connect power cord of the charger into the wall ket. Please make sure that during charging, power and security keyhole stays in the F position.

Risk of short-circuit! Please make sure that there is no metallic objects sitting next to the charging plugs and the battery contact!

soon as the charger is connected fimrly the power outlet and to the battery pectively, and that the on/off switch is tched to the ON position, the red indicator nt (2) and the yellow indicator light (3) the charger go on simultaneously. The arging stops automatically, when the tery is fully charged – the indicator light





(3) changes from yellow to green.

Risk of short-circuit! After the charging ,please cover the plug socket on the battery case with the attached plug cap!

Please note that a current interruption would cause the control light to change from yellow to green. To continue with charging, please first switch off the charger and then switch it back on.

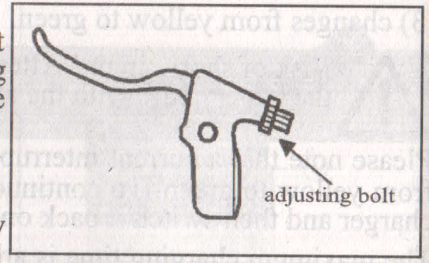
The maximum charging time is around 6-8 hours. When experiencing charging time substantially over 8 hours, please contact our customer service agents.

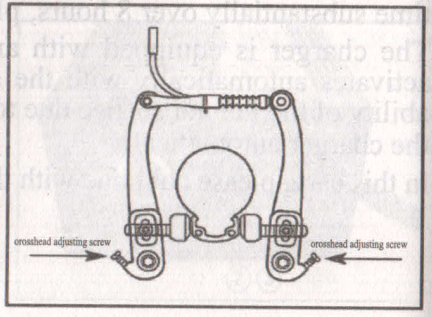
The charger is equipped with an overheating-protection device , a fan that activates automatically with the switch-on of the button. Should the cooling ability of the fan not suffice due to a high surrounding temperature, shuts down the charger automatically.

In this case, please continue with the charging after the charger has cooled down.

rakes

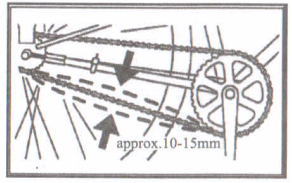
e brake-shoes which are fixed on the front
d rear V-brakes wear out in time causing
widening between the brake-shoes and the
flank.This is indicated by the increase of
leeway of the brake lever.
u could fix this problem by adjusting the
ke-system through following steps: Simply
the adjusting screw on the brake lever until
gap between the brake-shoes and the rim
nk averages about 1.5 - 2 mm.
just the V-brake correctly by tightening or
sening the crosshead screws on the side of
brake arms, until the brake-shoes are centered
he rim. Through tightening of the screw,
l the spring be prestressed and the brake
oe moved away from the rim.
e back-pedalling-brake is maintenance-free
requires no adjustment.





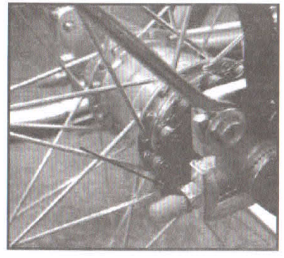
Chain

The chain must be regularly (especially after riding in the rain) lubricated with a standard chain-caring product. Through physical stretching of the chain is a regular checking procedure of chain tension necessary. Examine the chain tension by positioning the E-Bike on its kickstand and test, whether the chain, while being pushed upwardly and downwardly, has a maximum gap of 10-15mm in between.



If this is not the case, please proceed to the following:

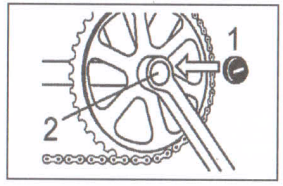
1. Loosen the axle nuts on the both sides of the wheel and the brake counter-bracket (for the back pedalling brake) on the left side of the rear-end stay Where a gearbox removal is required, please see the manufacturer's instruction manual.
2. Subsequently, adjust the chain's tension by turning the tension screw nuts on both the left and the right sides.
3. Before tightening of the axle nuts, check whether the wheel stands in the centre and adjust if needed.
4. Tightly screw the axle nuts and the tension screw nuts.
5. Recheck the chain tension.



An over-tightened chain can cause pops during riding.

rank / Chain Ring

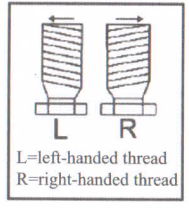
heck the crank regularly to make sure that it is stened The crank is fixed with a hexagon bolt, hich sits on its cup-square screw hole of the bottom racket axis. Remove the cover caps (1) on the both de of the cranks and screw down the bolts (2) sitting nder. Reattach the cover caps (1) afterward.



edals

The pedals must be fastened at all times, or else they risk breaking off from the screw threads. Risk of fall and injury!

lease note furthermore that the right pedal has a right-handed read and must therefore be screwed on in a clockwise rection, and the left pedal be screwed on in a counter- ockwise direction.



When pedals are exchanged, it could cause damage to the screw threads in the cranks and a possibility of pedals breaking out during riding! Risk of breakage! (No warranty coverage would be provided in this case!)

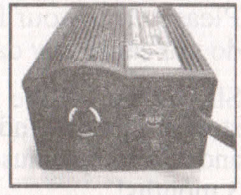
Fuses

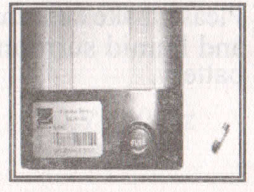
The E-Bike have two fuses. They are each located on the top and the bottom of the battery case. The charger is also equipped with one fuse.

You can remove the fuses, by loosening the closing cap with the marking (FUSE) and then extract the fuses beneath.

battery-fuse above: 5 A
battery-fuse under: 20 A
charger-fuse: 10 A

Please always replace a burnt-out fuse with one with correct amperes. Please do not replace the fuses with substitutes such as aluminium foils or wires!
Please contact our customer service agents if the fuse burns out in a short interval.





Gear Hub with Back Pedalling Brake

t could be needed from time to time to readjust the gear hub Please note that he maintenance and the readjustment work thus do not fall under the guarantee. You could find the exact instruction of gear hub maintenance and readjustment n the enclosed SRAM service manual.

Winter Operations and Maintenance

Please clean your E-Bike more often during winter time ,so that the road salts lo not cause any damages to the bike.

Should the E-Bike not be used for a long period, please take out the battery and tore it in a dry and cool room. The battery must be fully charged before storing, nd when kept unused, must be recharged for 2 hours each time no later than every months!

Please make sure that the E-Bike is not exposed to highly fluctuating temperature nd humid surroundings, so that it does not affect negatively the cells in the attery.

Technical Data (subject to changes without prior notice)

Generals

Gear Shift	SHIMNO Inter -3 (3-gears internal gear hub)
Tire Size	28 x 1.75 (47 -622)
Brakes	V-brakes (front and rear) Back pedalling brake (rear)
Length	1950 mm
Width	650 mm
Height	1150 mm
Total Weight	29.5 kg
Maximum Load	100 kg

Motor

Power	250 watts
Voltage	25 . 9 V
Speed	up to a maximum 25 km/h under motor support
Cruising Range	approx. 30-35km

Battery		**Battery Charger**	
Type	Lithium -ions	Current Supply	120 V / 60 Hz
Capacity	10 Ah	Charing Time	max. 8 hours
Voltage	25 . 9 V		

roubleshooting

No.	Description of Failure	Cause of Failure	Solution
	The LED light does not light up by the switch-on of the current entry	battery is empty	recharge battery fully
		fuses in battery are defected	replace fuses
		battery cells are defected	change battery
	The power control does not respond or the maximal power will not be sustained	low battery power	charge battery fully
		power control bar is defected	replace power control (turning) bar
		fuses are defected	replace fuses
		lead wires are defected	check for cracks and fractures in lead wires
		loosened connectors / plugs	check all plug-in connectors from motor to battery
	The motor does not function despite the switched-on power supply	loosened battery cable	check battery cables
		interrupter in the brake levers failed	check cable contacts and replace brake lever if needed
	Low cruising range even with fully charged battery	too little tire pressure	check tire pressure
		battery is too old or defected	change battery
		heavy strain to the E-Bike through uphill, headwind, or overloaded riding	take up less pedalling assistance to increase cruising range
		low surrounding temperature (< 5°C)	take up less pedalling assistance to increase cruising range

No.	Description of Failure	Cause of Failure	Solution
5	The charger does not charge	charger breakdown	replace charger
		loosen plugs / connectors contact	check and affix cables
		fuse is defected	replace fuse
		battery cells are defected	replace battery
		charging was interrupted	restart charging
6	The battery power display on the battery case does not light up when the button is pushed	battery is empty	recharge battery fully
		fuses in battery are defected	replace fuses
		cells in battery are defected	replace battery
7	The front wheel creaks by weight	freewheel of the front-wheel hub is not enough greased	lubricate flywheel with vehicle grease
		loosened spokes	retighten spokes

attery Disposal

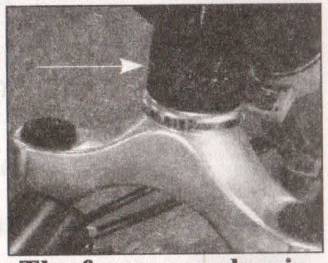
e batteries are not part of the household waste. a consumer you are bound by the law to give ck the exhausted battery. In no case are you owed to dispose the battery in fire, trash bins, ppropriate recycling bins, or in any other way ich could cause damages to the environment.

u can dispose your old battery at any public llecting point in your community or send it k to the bike manufacturer respectively, whom ewise guarantees a professional waste disposal.

ostitute batteries can be ordered from the nufacturer.

Bike Identification

model	
frame no.	
colour	
wheel size	
gear shift	
specific configuration / criteria	
purchased at	
date of purchase	
owner's address	
telephone no. (daytime)	



The frame number is engraved on the fork shaft tube.

Merci d'avoir choisi notre bicyclette électrique. Elle vous procurera certainement beaucoup de plaisir. PEDELEC veut dire bicyclette, un vélo électrique qui donne un rendement au cycliste pouvant aller jusqu'à environ 25 km/h.

Bicyclette Électrique

Manuel d'entretien et d'identification

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