



e.bike

OWNER'S MANUAL



USER GUIDE TO POWER ASSISTED BIKES


Avocet
SPORTS LIMITED

PAGE CONTENTS

Page. 3	Unpacking
Page. 3-4	Easy steps to get started
Page. 5	General Assembly Instructions
Page. 6	Aligning H/Bars,
Page. 7	Tightening pedals onto Crank
Page. 7	Gears
Page. 8	Tyres
Page. 8	Battery power
Page. 9	Inspection
Page. 9-12	Battery Type information
Page. 12	Charging
Page. 13	Maintenance
PAge. 14	Simple Troubleshooting
Page. 15	Warranty

ON OUR SITE YOU WILL ALSO FIND A BICYCLE USER'S MANUAL WHICH YOU SHOULD REFER TO FOR ALL GENERAL CYCLE MAINTENANCE.

PLEASE NOTE:

If you do not feel that you can complete the assembly or any of the routine maintenance of this bike , please take to your local bicycle workshop where we are they will be able to assist you.

For any help or advice on your e.bike purchase please contact

Customer Service
0161 727 8508 (option 2)

Unpacking

General unpacking Instructions

Packaging – Remove packaging materials and dispose of in a responsible manner. Remove all materials and set parts aside for assembly. Should your model be a foldable or none foldable, minimal assembly is required for your bicycle. However please follow the guidelines below for correct assembly.

Tools required -8 mm ring spanner, 10 mm ring spanner, 15mm pedal spanner, 14 mm open end spanner, 5 mm hex key, 6 mm hex key, screw driver, Cutters/Pliers.



Easy Steps to Get Started.

1. Unfold the bike (if folding type) . This is explained on page 7
2. Ensure the pedals are unfolded (if foldable pedals used). This is achieved by rotating the folded pedal until it snaps back into the riding position. (Fig.1)
3. Adjust the saddle so it is at the correct height for your body frame. This can be done by undoing the quick release mechanism (see fig. 2) and sliding the seat post up or down the seat tube. Please ensure the fastener is tightened back up once the correct position has been found.

Easy Steps to Get Started. (cont.)

4. Switch on the Battery with Key, button or switch (see ' Battery' section. You may also need to switch 'ON' the ON/OFF switch (Fig.3) or 'ON' button on the Module on the handle bars.
5. To start, simply begin to pedal. Once the crank is turning you will feel the motor kick in and your electric system begin to assist you.
6. When using the 3 level module, first select the level of assist you require (see fig. 4). Please be aware that riding constantly in the high ("H") level of assist will reduce the range of the battery.
7. Please be aware that this bike is a "pedelec" cycle and as such requires the rider to be pedaling before any assistance will be given by the motor.
8. Once riding the conventional 6 speed gear shift can be used by rotating the shift grip in the rider's right hand (see fig. 5).



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5

General Assembly Instructions.

- Remove all packaging materials from the bike.
- Lift locking pin and join the hinge tightly together. Fold the main frame hinge so the bicycle comes together at full length.
(for folding frame)
- Release locking pin so pin drops firmly into the hinge assembly.
- Now lift the quick release lever into the v slot (As shown below) and close ensuring the lever is locked down firmly.
- This is critical to ensure the safe operation of the bicycle.
- Push the handle bar to the down position and lock the quick release into place and tighten firmly. Again this needs to be checked for complete firmness and accuracy. (As shown below)
- Check and re check for tightness.



Alignment of handlebars

- **Folding Handlebars**

- The handlebar assembly may need some small adjustment for the alignment of the headset to the front wheel.
- Undo the head stem folding hinge and drop handle bar down.
- Use a 6 mm Hex key to loosen the handle bar stem.
- Align handle bars so it is perpendicular to the front wheel (As shown below).
- Carefully lower the handlebars back down and tighten the 6mm hex key firmly. Check and re-check for firmness.



- **Mountain bike Handlebar type**

- Please refer to the 'Bicycle Owners manual' if your bike is a Mountain bike style e.bike.
- These photo's show a typical Mountain bike A-head stem, you position the handlebars at 90° to the wheel, nip up bolt 'A' then tighten the 2 allen key bolts . The Bars are set centrally then the 4 bolts tightened evenly. (some stems only use 2 bolts).



Install Pedals and tighten onto Cranks.

Use a small amount of axle grease on shaft before installing. Ensure you clearly identify Right and Left pedals via the R or L stamped on the end of the pedal shaft. Screw pedal in clockwise. Tighten with pedal spanner or 15mm spanner. Remember bicycle pedals tighten in a clockwise direction.

To fold pedals push the pedal from outside towards bike and fold.



Gear adjustments

- PLEASE SEE 'Bicycle Owner's Manual'
- If you do not feel confident setting gears is recommended you take to a bicycle workshop for assistance.
- Apply oil to the chain and sprockets regularly with a Teflon base chain oil.



Tyre Inflation

Inflate Tyres to correct PSI (pressure) as specified on side of tyres and maintain ongoing by checking once per week. Correct tyre pressure is critical to the performance of the bike.

Tyre specifications are molded into the tyre wall.

Battery Power

Your e.bike is designed to be power assisted by connection to a Lithium battery power source however, it can also be ridden as a normal bike in (Human mode).

Power

Our range of e.bikes are power assisted by various batteries, an overview of these are listed on pages 9,10 and 11.

Please read the instructions which relate to your model/type.

Ensure no other plug is ever connected to the main battery slot other than that supplied with your bike.

Turn on the power as directed on page 4. (4)

Power assist, max speed 25km/h,

Applying the breaks cuts the power to the motor.

Power indication

There are a series of LED lights either on the battery shell, on the Module on the handlebars, or both, indicating the power levels. Several green LED's and One Red LED light means fully charged, the green LED's will go out in sequence as the power is drained, charging required when the greens LED's go out leaving only the red LED lit.

Inspection

required before riding:

1. Check tyre pressure and tyre wear.
2. Check brake pads for wear and replace in necessary.
3. Check Brakes for alignment of front pads and wear.
4. Check the tightness of chain.
5. Check the gear function.
6. Check tightness of all Quick-release fittings.
7. Check pedal tightness on crank.
8. Check the power indication via Charge light on battery and / or module
9. Check the tightness of saddle.

Please ensure that if you intend riding at night you have fitted appropriate lights, and checked they are working.

Sections on Riding safety is fully explained in the 'Bicycle Owner's Manual' reading the manual will keep your e.bike in good order and aid your safe riding for many years to come.

BATTERY STYLES

used in our range of models

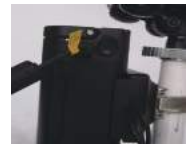


Square style

Power 24V 8.8Ah



Switch on



Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor

BATTERY styles used in our range of models



Seat post fixed(FROG)style

Power 24V 8.5Ah



Switch on



Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor



Carrier style power

36V8.7Ah



Switch on



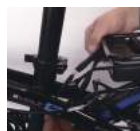
Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor

BATTERY styles used in our range of models



Rear carrier fixed style

Power 24V 8.8Ah



Switch on



Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor



Small Flask style

Power 24V 4.4Ah



Switch on



Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor





Large FLASK style
Power 24V 8.8Ah



Switch on



Charge on bike



Remove Battery



Re-fit Battery



Disconnect Motor

Charging. The bike arrives partially charged. Follow charging instructions provided with the charger carefully.

1. Plug the charger into the mains and the LED light on the charger illuminates green.
 2. Connect the charger to the battery and the LED light changes to red. This indicates charging is taking place.
 3. Once fully charged the LED on the charger switches back to green. This indicates the battery is fully charged.
- Check AC voltage is set to 220/240v. Never use on 110v setting.
 - Do not drop the charger as it has sensitive electronics inside and damage may result.
 - Do not cover with any material or substance that may restrict airflow into charger. The charger need to "Breathe" and be kept cool.
 - Charging your bike each time you use it no matter how far the trip will prolong the life of the battery.
 - Remember that charging the bike each time you use it will ensure longer life of the battery. **DO NOT** leave the battery discharged for long periods. This will damage the battery!
 - Charge only in a cool well ventilated area. Never cover charger.
 - Never open the charger or change settings on charger.

Maintenance

1. Wipe the bike with a dry cloth, or neutral detergent.
2. Use lubricating oil for metal parts.
3. Wipe the plastics, paint coating part with dishcloth.
4. Increase the frequency of lubricating oil at wet and humid areas (Recommend 30SAE lubricating oil).

6 Week Inspection

It is recommended that after this period you should inspect your bike as things will slacken off and need re-tightening.

Every 6 Months

It is recommended that every six months you complete a full service on your bike to keep it in excellent working order.

When stored and not in use remove the Battery and store in a cool, dry place, charging periodically as the battery will discharge over time of none use.

Failure to do this will result in the battery falling into a dormant state rendering the battery unrepairable.



PLEASE NOTE:

It is ok to oil front and rear axles and chain.

The Motor should not be lubricated.

Simple Troubleshooting

Driving system

Problem	Check	Action
Low speed	Battery power	Charging
	tyre pressure	Inflate the tyre
	Is tyre flat?	Repair the tyre
	Load	Do not overload
The motor is not working	Every plug	Ensure every plug is connected
Power indicator light does not shine		If the situation does not improved, please contact with the dealer.
Power indication of battery is on, but the bike doesn't work.	Loose wiring or connection.	Check wiring and connections, particularly brake connections, please contact with the dealer.
Reduced battery performance	Is the battery fully charged?	if NOT, Charge fully.
Charger not giving full charge.	Check the light on charge remains RED during charging period?	If NOT, replace charger
Low Battery power	Charger works correctly?	Replace Battery.

If unsure on any of these points, or you fail to correct the problem, we would advise you to seek assistance from your local e.bike specialist.

Warranty

Subject to the following provisions, Avocet Sports Limited warrants that the goods will correspond with their specification at the time of purchase and will be free from defects in material and workmanship. Avocet Sports Limited offers a 3 year warranty on the frame for any problems relating to manufacturer workmanship or arising from material defects including breakages or cracking caused while riding (other than rider misuse).

Avocet Sports Limited offers 12 month warranty on the battery for any problems relating to manufacturers workmanship or arising from material defects. The warranty does not cover misuse or failure to follow the manufacturer's operational instructions correctly.

All other components are guaranteed for 1 year for problems related to manufacturer workmanship or arising from material defects with the exception of consumable components for example brake blocks, pads, tyres and tubes.

Avocet Sports offers this warranty to the original purchaser of the product. This warranty is not transferable to a third party.

PLEASE NOTE:

Any figures quoted for battery performance or distance that can be obtained per single charge, are based on standard test conditions.

Diverse terrain and rider weight will of course produce varying results from those stated.

For any help or advice on your e.bike purchase please contact

Customer Service

0161 727 8508 (option 2)



Avocet Sports Limited.

Units 7-9 Shield Drive, Wardley Ind.Est. Worsley, Manchester. M28
2QB