

Owner's Manual

Accolmile 250W 700C CITY Bike Middle Drive



**We strongly recommend that you read this entire manual before using your Accolmile bike.
The max speed of this ebike is 25KM/H**

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1 Introduction

Thank you for choosing a Accolmile electric bicycle.

Before you use your Accolmile electric bike it is important that you read this manual carefully. If there is anything you do not understand completely, please contact us.

Please observe traffic regulations, and do not lend your bicycle to anyone who is unfamiliar with it.

We strongly advise you to always wear an approved cycle helmet when riding your bicycle. If you are unfamiliar with cycling we advise attending a cycle proficiency course prior to using your new bicycle on the public highway.

When using any bicycle, it is important that you stay within safe limits; if you feel as if you are travelling too quickly, you probably are.

Always test your brakes prior to using the bike and remember the bike will not stop as quickly in the wet as it would in the dry!

Before you use the bike for the first time, please make absolutely certain that it has been correctly assembled. You can do this by either taking it to your nearest cycle engineer or if you are proficient in cycle mechanics, inspecting it yourself. In particular you must make sure that the pedals, saddle, handle bars and any self assembled items have been fitted correctly.

Avoid consuming alcohol before you ride your electric bike. The use of alcohol greatly reduces reflexes and limits your ability to ride safely.

If you need to replace your battery, please either dispose of it properly or preferably send it back to us or one of our distributors and we will make sure it is properly recycled.

Above all, enjoy your Accolmile bike, happy cycling!

2 Caring for your Accolmile bike and pre-use checks

Your Accolmile bike has been thoroughly tested at the factory prior to delivery and undergone a pre-delivery inspection by your Accolmile Stockist.

It is very important that you check the bike thoroughly before its first use. Equally important are frequent and regular spot-checks, as they will protect you and your Accolmile bike.

Please read this manual carefully. Only on full understanding all of the functions of this electric bicycle should you attempt to use it.

This city bike can be used for riding on the flat roads, it shall not be used for off-road, sports and performance downhill. If consumers violate the regulations for off-road, sports and performance downhill and cause accidental injury, they shall bear their own responsibility.

Before you set off for the first ride: suggested information to measure and adjust saddle height to suit rider height:

Please try to confirm whether the pedals are locked before riding. If they are loose or damaged, they need to be adjusted before use.

2.1 Before you set off for the first time

- 2.1.1 Check the handlebar and stem are properly tightened.
- 2.1.2 Check all other nuts, bolts and fixings are properly tightened.
- 2.1.3 Check brakes are functioning properly.
- 2.1.4 Check tires pressure are correct and tires are not damaged.
- 2.1.5 Check reflectors and lights function if fitted.
- 2.1.6 Make sure the battery is fully charged.
- 2.1.7 Load the battery into bicycle and turn on with the switch located directly above the battery. To remove the battery, turn the battery key hold in unlocked position and slide the battery out. Remove key from battery and keep safe during operation of the bike.
- 2.1.8 Turn on the bike by pressing the on/off switch adjacent to the left hand grip for two seconds. (Turn off the bike by repeating the same process).



Fig 1

The bike will be ready to ride and the LCD will activate showing battery state, assist level, time, trip and speed. Turning the pedals for more than $\frac{1}{4}$ of a revolution will now activate the motor.

- 2.1.9 To avoid unplanned acceleration, always make sure that the LCD assist level is set to 0 when mounting, dismounting and turn the bike off when leaving it unattended.

To set the assist levels, toggle with the + and – buttons (see fig 1)

- 2.1.10 For full information regarding the LCD display please refer to separate hand book available from Accolmile Bikes or your retailer.

- 2.1.11 To avoid the use of a bicycle trailer or outboard bicycle.

2.2 Before each use

It is important you check your bike prior to each time you use it. Checks should include the following: (If you do find any damage or problems, do not use the bike until the problem has been solved or you have had the faulty item checked by an electric bike mechanic or your retailer).

- 2.2.1 Check the tires for any visible damage.
- 2.2.2 Check the tires pressure.
- 2.2.3 Check for any loose nuts, bolts or fixings. Check all folding mechanism clamps are closed tight and locked.
- 2.2.4 Check the brake functions.
- 2.2.5 Check the electronic functions.

- 2.2.6 Check the reflectors are in place and the lights are working.
- 2.2.7 Check the battery for any visible signs of damage.

2.3 Battery care

- 2.3.1 Your Accolmile bike comes with a high quality lithium ion battery. All lithium batteries need to be looked after to ensure years of full use. The latest Accolmile batteries come with new technology installed to assist you in looking after your battery and will be dealt with separately. Following these easy steps will ensure the long life of your battery.
- 2.3.2 Recharge your battery after every use if possible. Keeping your battery charged extends its life and your bike is always ready to go.
- 2.3.3 You do not have to “condition” your battery by charging and discharging before it’s first use. This was the case with old lithium ion technology but is not necessary on modern batteries.
- 2.3.4 Never leave your battery completely discharged for more than 24 hours. Voltage dropping below minimum for any length of time will cause serious damage to your battery cells.
- 2.3.5 Recharge your battery every month even if you are not using the bike. Most lithium ion batteries will continue to discharge even when the bike and battery are turned off. If your battery falls below minimum Voltage, it may not be recoverable.
- 2.3.6 Do not expose the bicycle or battery pack to fire, heat sources, acid or alkaline substances.
- 2.3.7 When leaving your bicycle during hot weather, always leave in a shaded well ventilated area.
- 2.3.8 For best results, always recharge and store the battery at room temperature.
- 2.3.9 Before unloading the battery, make sure it is turned off and unload the battery using its handle.
- 2.3.10 Further information on user responsibilities and battery maintenance are included in the warranty section of this manual.

The most common cause of battery failure the owner not keeping to points 4 and 5 above. This is the most common reason for customers to need to replace batteries. This is particularly noticeable in the spring when customers are using their bike for the first time in the new year. We get most calls regarding failing batteries during this period.

IMPORTANT

If your battery is damaged due to your leaving it discharged, or not recharging when advised as per this manual your battery is not covered by our warranty.

Battery safety

- 2.3.11 i. **Never leave a battery connected to the charger or mains power over-night.**

ii. **Never recharge a battery outside, in damp conditions or in temperatures less than 0 degrees centigrade.**

iii. **Never open a battery case, try and fix the battery or give it to any one other than a registered Accolmile Stockist for maintenance. (Failure to comply will void the warranty)**

iv. **If a battery is or appears to be damaged or overheating for any reason, do not use the bike and immediately return the battery to your retailer for advice and a safety check.**

IMPORTANT

Ignoring any of the safety rules above could cause serious injury or fire.

2.4 Recharging your battery

- 2.4.1 Before charging, make sure the charger is turned off and connect your battery to the charger at the charging socket. Plug the charger into a mains socket and turn on the mains socket. A red lamp will light up on the charger indicate the battery is charging. When the red light turns green, the battery is fully charged. To optimize battery life, leave the charger connected for a further hour and then turn off the charger and disconnect it from the mains after charging. Always disconnect the charger from the mains before disconnecting the charger from the battery. It is possible that the battery will take up to twelve hours to charge on the first three charges.
- 2.4.2 When charging the battery, always do so in a well ventilated area.
- 2.4.3 Do not leave the charger connected to the mains when not in use.

2.5 Waterproof

- 2.5.1 Your electric bicycle is rain and splash proof and can be used in all weathers.
- 2.5.2 The electrical components of the bicycle, such as motor, battery, and controller, must not be submerged in water.
- 2.5.3 Do not directly flush the bike with water to avoid direct contact with the brake levers, handlebars, electronic equipment, etc., causing hidden dangers of the accident.
- 2.5.4 Please use neutral detergent, wipe the headlight lampshade, instrument case and other plastic parts with a soft clean cloth or sponge dipped in water, and then wipe with a dry cloth to avoid scratches;
- 2.5.5 It is strictly forbidden to refuel the front and rear brakes and tires;

- 2.5.6 Please avoid frequent bike washing, the best bike washing cycle is 10-20 days, too frequent will accelerate the aging of bike paint;
- 2.5.7 To protect the environment, please try to wash the bike in the place where the sewer pipe is laid to prevent the road area water from affecting the traffic safety.

2.6 Maintenance and adjustments

- 2.6.1 **IMPORTANT!** Do not attempt to open the casings of the battery, motor or controller. It could be dangerous and all warranties will become void. If you experience a problem, contact our service department or the retailer.
- 2.6.2 Wheel spokes should be checked after 300 miles of riding. Handlebar and saddle tubes should never be raised beyond the maximum permissible, indicated by a safety line around the tubes. The recommended torque (tightness) of crucial fixings is as follows:

Front axle nuts.	46N.m
Back axle nuts.	70N.m
Handlebar and stem clamp bolts.	12N.m
Handlebar stem expander bolt.	10N.m
Seat pillar clamp nut/bolt.	5-8N.m
Seat clamp nuts.	24N.m
Crank axle Allen bolts.	40N.m
Gear shifter nuts.	4N.m
Rear carrier nuts.	8N.m
Mudguard bracket nuts.	8N.m

Other general torque settings depend on the thread size. M4: 2.5-4.0N.m, M5: 4.0-6.0N.m, M6: 6.0-7.5N.m.

- 2.6.3 Your bike has a rear derailleur that will automatically tension your chain. However, if the chain becomes loose or frequently comes off the front chain-wheel, please seek advice from the dealer.
- 2.6.4 Brake levers should lock the wheels when compressed half way between their open position and touching the handle bars.
- 2.6.5 Warning: Handlebar hand grips or tube end plugs should be replaced if damaged, as bare tube ends can cause injury.
- 2.6.6 Brake pads must be replaced if the pad material wears to less than 1mm.

IMPORTANT! braking distances increase on wet or icy roads.

2.6.7 Lubrication:

6.7.1. Lubricate all pivot points on the derailleur and chain with light oil or chain lube on a regular basis.

6.7.2 Once a year, have the dealer re-grease the headset bearings, front wheel bearings and pedal bearings.

2.6.8 Recommended tools for proper maintenance:

Torque wrench with lb/in or N/m gradations

2, 4, 5, 6, 8mm Allen wrenches

9, 10, 15 mm open-end spanners and 15mm box end spanner

14, 15, and 19mm socket

T25 Torque wrench

No. 1 Phillips head screwdriver, bicycle tube patch kit and tire pump

2.7 Technical specifications & performance

Motor	Bafang 36V 250W M200 middle motor
Battery	Lithium battery 36V 15.6Ah 2500MAH cells
Charger	36V 2A
Max speed	25KM/H with powered assistance
Controls	LCD display panel with bike and light on/off switch Power assistance: five levels 1, 2, 3, 4, 5
Load capacity	150KGS
Frame	700C, 6061 Alloy
Forks	Suntour NEX Suspension fork
Seat post	Yousen, 300MM, black, aluminium
Saddle	Velo Saddle VL-6268A
Handlebars	600MM, black, aluminium
Stem	110MM, black, aluminium
Gears	SUNRACE 8 speed derailleur system
Brakes	Taiwan Logan front& rear hydraulic disc brakes

2.8 Simple Trouble shooting

Problem	Possible reason	Solution
Top speed too slow	<ol style="list-style-type: none"> 1. Low battery voltage 2. Handlebar control problem 3. Damage to motor drive-line 	<ol style="list-style-type: none"> 1. Recharge battery fully 2. Call service 3. Call service
Power on, but motor not working	<ol style="list-style-type: none"> 1. Battery not connected 2. Motor connection damaged 3. Handlebar control problem 	<ol style="list-style-type: none"> 1. Re install battery 2. Call service 3. Call service
Low range after recharging the battery	<ol style="list-style-type: none"> 1. tire pressures too low 2. Undercharge or charger fault 3. Battery capacity loss or damage 4. Hill climbing, frequent stops, strong headwinds, overloading. 	<ol style="list-style-type: none"> 1. Check pressures 2. Recharge completely or have charger inspected 3. Replace battery

3 Controls and equipment

In this section, the functions and any specific maintenance needed on all the main controls and ancillary equipment are described.

3.1 Battery on/off switch and lock

3.1.1 Your Accolmile bike is supplied with two identical keys. The key locks the battery to the bike.

3.1.2 The battery is connected to the electrical system of the bike automatically when you slide the battery into the frame. To turn on the bike's electrical system, Press down the button directly above the frame to turn on the power, press the button again to turn off the power.



Fig 2

- 3.1.3 When the battery has been turned on, the bike is now ready for use. The on/off button on (the top button c- on the handle bar control) isolates the power from the bike.

When the on/off button is pressed for 3 seconds the LCD symbols will become visible. When the on/off button is pushed again for 3 seconds, the LCD symbols will disappear - you have turned the bike "off". When the bike is "off" you will not get any assistance from the battery and motor and the bike is effectively an unpowered pushbike.

- 3.1.4 To lock the battery into the bike frame, slide the battery into the battery holder in the rack until you hear a click. To unlock the battery, turn the key fully anticlockwise and hold in this position whilst sliding the battery out.

- 3.1.5 The battery can be charged either on or off the bike.

3.2 The ON/OFF button and Light button

- 3.2.1 To turn the power on so the pedelec system is operational, simply press the on/off button (marked with a c-) on the handle bar control for 3 seconds - the LCD symbols will become visible showing the power is on. When the on/off button is pushed again for 3 seconds and the LCD symbols become invisible you have turned the bike "off". When the bike is "off" you will not get any assistance from the battery and motor and the bike is effectively an unpowered pushbike. If the bike is left for ten minutes without being ridden, the bike will automatically turn off. The battery capacity indicator lights provide an indication of the battery capacity remaining with four bars indicating the battery is at full capacity. The display also incorporates a diagnostic function.

- 3.2.2 The LIGHT button is the on/off, C- button found on the LCD. If you press when the bike's power is on, the LED headlight and rear light will illuminate. The LCD display will also become back lit. Press it again to switch off the lights. The power for the lights comes from the bike battery, but due to the low power consumption of the LED lights, you will not noticeably reduce your range.

3.3 Pedal assist power

- 3.3.1 When you first ride your Accolmile bike, you will notice that the motor will start working when you have turned the pedals through between 90 and 180 degrees.
- 3.3.2 You will find the assist buttons (marked with up and down arrows) on the handlebar control. Each time the UP button is pressed, the LCD will move between 1 and 5 levels and the corresponding power level increases in increments of 25%. Setting 5 provides 100% power. The default level is set to 1 when the bike is first turned on. We recommend that you only turn on the bike after you have mounted the bike so the motor is deactivated. Once on the bike, press the on button for three seconds and the assistance will be turned on. You can start off in any level, if you are on a hill for instance you may want to start in level 2, 3, 4 or even 5.
- 3.3.3 Setting 5 is generally used when you need the maximum amount of assistance from the motor, but this will drain the battery the fastest. Lower settings are used when you do not need the assistance at 100% power. In high traffic situations or poor conditions such as ice and snow, instant full power could be dangerous. Power settings can be changed when the bike is stationary or when on the move.

IMPORTANT! Make sure your handlebar grips are always intact and in good condition. Uncovered handlebar tubes can be very dangerous.

3.4 Battery capacity meter, riding style and affect on range

- 3.4.1 The range of the bike (distance covered between recharging of the battery) is greatly influenced by the level of assist selected, the amount of pedal assistance provided by the rider and the use of the throttle.
- 3.4.2 If a high level of assist is selected, then the range of the bike will be reduced compared to using a lower level of assist.
- 3.4.3 The cadence sensor system detects the speed the pedal cranks are turning and the This information is fed into an on board computer (controller) to give the rider the most natural riding experience possible.
- 3.4.4 The optimum range is achieved when the rider pedal effort is maximized and an ideal situation is for the rider to aim to match the power being provided by the bike on an equal basis.
- 3.4.5 The battery capacity indicator is provided to give an approximation of battery capacity remaining. Each bar on the LCD approximates to a ¼ of the capacity. However, this indicator relies on sensing battery voltage that will rise and fall depending on the amount of power being demanded at any given time, ambient temperatures etc., hence the meter should only be used for indication purposes.

- 3.4.6 The battery capacity indicator, built into the top of the battery provides a similar indication and operates on the same principle.
- 3.4.7 Under heavy power situations (full throttle or high levels of assist) the battery voltage will temporarily dip resulting in the capacity meter showing a lower level of charge. When the heavy power usage is reduced, the capacity meter will rise again as the battery naturally recovers its voltage.
- 3.4.8 During the discharge period of the battery, the voltage will drop from an initial voltage of nearly 42 Volts to a minimum of 28 Volts. Hence due to this wide range in voltage, the performance of the bike will vary depending on the state of charge of the battery. To achieve the best possible performance, it is better to start a journey with a fully charged battery and to recharge it at the end of each journey.
- 3.4.9 Be aware that recommended temperature range of use of the bike with battery is - 10 ~ 40 °C.

3.5 Brakes

- 3.5.1 Disc brakes are fitted to the front and rear wheels of the bicycle. The braking direction is left for front and right for rear. Disc brakes offer several advantages over traditional rim brakes, including better braking in wet, muddy or other adverse conditions and less braking power fade over extended downhill braking.
- 3.5.2 Details of how to adjust and maintain your brakes are as follows:
- 3.5.3 Regularly inspect the brake pads for wear. If the front brake pads have reached the wear limit of 1mm, replace them immediately. The rear brake blocks should be checked by a bicycle mechanic and replaced when necessary.
- 3.5.4 Front brake, remove the caliper from the fork leg, complete with the mount adapter by removing the two 6mm Allen caliper fixing screws. The pads can then be removed by unscrewing and removing the pad retaining screw (which passes through the tabs of the brake pads) using a 3mm Allen wrench. Then lift the pads complete with the spring out of the rotor slot in the caliper body.
- 3.5.5 After braking during riding, do not touch the disc brake disc with your hands immediately to avoid burns.

Warning! Do not loosen any other screws on the caliper.

- 3.5.6 To refit the pads, hold the pads complete with spring as an assembly and insert into the caliper slot with the metal backing towards the pistons. Refit the pad retaining screw ensuring it passes through the holes in the pad tabs and through the hole in the spring and tighten to 3– 5 N.m. Refit the caliper loosely using the two Allen screws, apply the brake

lever and tighten securely to 6 to 8N.m whilst continuing to apply the brake lever. (N.B. use of a thread locking compound is recommended on the caliper fixing screws).

Warning: If you are unsure about any part of the brake installation process you should seek advice from a Accolmile service center or qualified mechanic.

Caution: The pads and rotor must be kept clean and free from oil or grease based contamination. If the pads become contaminated, you must discard them and replace them with a new set. A contaminated disc should be cleaned with a proprietary brake cleaning solution.

3.6 The connectors

3.6.1 All electronic components have individual connectors, this allows for the easy removal for diagnosis, repair or replacement of any of the electronic parts. The connectors, being a push fit are simple to disconnect or reconnect and click into position when fully engaged. Each connector has a different number of pins and an alignment arrow, so it is important to ensure the connectors are only mated in their original positions, damage may occur to the pins if this procedure is not followed.

3.7 Quick release saddle height adjustment

3.7.1 Your Accolmile bike has been fitted with a quick release saddle post fitting to facilitate the movement of the saddle height.

3.7.2 It is important that the knurled nut on the fitting is tightened so the post will not move in the bike tube. Make this adjustment with the quick release lever in the open position.

3.7.3 Adjust the seat to the correct height and close the lever firmly. When you sit on the saddle there should be no vertical movement at all in the saddle post beyond the seat post suspension movement. Never apply grease to the saddle post.'

3.8 Rims and spokes

3.8.1 It is essential to have your spokes checked and tightened after 300 miles. This is a free service provided by your supplier. If this service has not been undertaken at the correct time, this may cause damage to the wheels and spokes that will not be covered under our Warranty.

3.8.2 Check the rims before riding. You need to confirm whether the rim or steel wire is damaged and whether the hub rotates smoothly. Once you find damage or poor rotation, you need to find the cause in time and use it after maintenance.

- 3.8.3 Rim Care and Rim danger: It is strictly forbidden to lubricate the front and rear brakes and the tires during maintenance of the rim; regularly check the tire wear and tear, and if it is found that the tread wear is serious, the tire needs to be replaced in time.

3.9 Chain and drive wheel removal

- 3.9.1 To completely remove the rear wheel, it is necessary to disconnect the main motor cable connecting the motor to the bicycle electrical system. This operation is best achieved by turning the bicycle upside down.
- 3.9.2 Locate the motor cable where it emerges from the centre of the wheel axle on the left hand side of the bicycle, slide back the top hat protector to locate wheel nut.
- 3.9.3 Trace the route of the motor cable along the rear stays and locate the quick release motor cable connector shown in the image above. Disconnect the two halves of the connector, taking care not to strain the cables, and unclip the motor cable from the frame. Note the alignment marks on the two halves of the connector.
- 3.9.4 Loosen the two large motor axle nuts and remove the nut from the right hand side, taking care to note the position of any tab washers fitted. Unscrew the left hand nut as far as is possible towards the cable exit from the motor axle, being careful not to damage the cable.
- 3.9.5 Lift the wheel from the frame dropouts, being careful not to snag or strain the motor cable.
- 3.9.6 Installation is the reverse of the above. Take care to locate the tab washers correctly in the drop out slots and tighten the axle nuts to the torque specified in the manual. Reconnect the two halves of the quick release connectors, taking care to ensure the pins and alignment arrows align correctly. Re-clip the cable to the frame, ensuring that the cable cannot rub against the tire and that the cable exits in a downwards direction from the axle to avoid water ingress into the motor. Refit the rubber top hat cover.

3.10 Derailleur and gear change

- 3.10.1 Full details on how to adjust and maintain your derailleur can be found in the Shimano manual.

If difficulty is experienced with changing gear after initial operation of the bicycle, it is likely that some cable stretch will have occurred in the gear change cable. To compensate for this turn the knurled adjuster shown in the centre left hand side of the image below by pulling it away from the outer cable stop in the direction of the cable towards the rear of the bicycle and turning it ½ turn anticlockwise when viewed from the rear. This will compensate for the cable stretch. If necessary, repeat the operation again until smooth gear selection is obtained or return your bicycle to your Accolmile dealer for further adjustment.

3.10.2 To change gear, use the 8 speed rapid fire gear shifter located on the right side of the handlebar. The two levers located underneath the shifter can be pulled and pushed to select the gears over the range 1 to 8.

4 Warranty, battery maintenance and user responsibilities

Repair or replacement of components

Only use this product in accordance with this user manual. Accolmile offer a limited warranty on the following items.

Main frame	Three years
Motor, Controller and Charger	Two years
Electronic handle bar controls and electrical connections	Two years
Paintwork (excluding accidental or deliberate damage)	Two years
Battery capacity loss of more than 30%	Two years
Lights and lighting system	One year
All other parts, other than consumables not shown above	One year

Terms and conditions

1.	If the product has a quality fault within 15 days of delivery, the part will be repaired or replaced or in exceptional circumstances we may replace the whole vehicle.
2.	The period of assurance shall commence from the day delivery was made to the retail customer, or from the day the retail customer collected the bike from the retailer.

3.	To validate this warranty, the retail customer must register their bike within 14 days of purchase.
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Exceptions to Limited Warranties

Your Accolmile bike may not be covered by our warranty for any of the following reasons:

1.	Damage resulting from misuse, not maintaining the vehicle or not following the guidelines within our user guide or using the vehicle for any kind of competitive sport.
2.	Accidental or deliberate damage.
3.	Damage due to private repair or alteration by user or unauthorized service centre.
4.	Failure to produce invoice or proof of purchase.
5.	Spare parts and components worn in normal use.
6.	Failure to register bike within 14 days of purchase.
7.	Failure to have your bike safety checked and the spokes tightened within 300 miles or three months of purchase.

4.1 Battery maintenance and user responsibilities

- 4.1.1 Your Accolmile bike is equipped with a powerful, high quality lithium ion battery. Lithium ion is recognized as being the very best type of battery for electric bicycle use.
- 4.1.2 All lithium ion batteries must be well cared for to optimize useful life and range. It is the responsibility of the bike owner/operator to ensure the battery is looked after properly. Incorrect use or storage of your battery may cause damage and void your warranty.
- 4.1.3 It is not unusual for a well-maintained battery to last for several years. Though your bike will feel less powerful as the battery gets older, and the range will diminish, you can continue using the battery for many years to come.

A key point to remember when choosing a battery is to check the battery capacity ($V \times Ah = Wh$ the battery's capacity) i.e. $15.6Ah \times 36V = 561.6Wh$. Choosing a larger battery not only gives you more power and range but is often more economical in the long term.

- 4.1.4 The key to having a long lasting battery is to look after it. This means never leaving your battery fully discharged and always conditioning the battery when not in use i.e. in the winter.
- 4.1.5 If a battery is not cared for as per our instructions, it will not reach its optimum performance and may not be covered by our warranty.

We reserve the right to check batteries claimed under warranty to ensure they have been maintained as per our instructions.

5 Extra recommendations and warnings

The importance of use of the original spare parts for parts with critical influence on safety. Battery, charger, controller, display, motor, front fork, handlebar, stem, seat post, brake system must use the original parts, not recommended to change by yourself.

- 5.1.1 It is not recommended to install transportation equipment and child seats.
- 5.1.2 Recommendation and user responsibility in case of unauthorized manipulation.

Cycling: 1. Always wear a safety helmet when riding a bike. 2. Please follow the traffic rules for cycling. 3. Please check whether the bicycle is in normal condition before riding. 4. The tire pressure during inflation must not exceed the rated tire pressure of the tire. 5. Downhill and non-paved roads must not exceed 15KM / H, and do not use the enhanced mode.

Bike storage and maintenance: 1. After the ride, please place the bike in a place free of sunlight and rain. 2. Always check the chain lubrication, if the chain is free of oil, please add chain lubricant. 3. Regularly check the various screws of the car and the places that need to be tightened, and tighten regularly. 4. Clean the bike regularly to ensure the best performance of the bike.

Charging: 1. Must follow the instructions. 2. Must use original charger. 3. Do not disassemble or replace the equipment in the charger by yourself.

- 5.1.3 Emission level of sound pressure on rider ears is lower than 70 DB (A)
- 5.1.4 **Extra warnings:** Like all mechanical components, Electric bicycles are subject to wear and high stress. Different materials and components can respond to wear or fatigue in different ways. If the design life has been exceeded, it can suddenly fail and cause injury to the rider. Any form of cracks, scratches or discoloration in the stressed area indicates that the service life of the component has been reached and the component has to be replaced.

1. If there is bifurcation, breakage or rusting on the brake line or shift line, it must be replaced;
2. When the thickness of the brake pads is less than 0.8-1mm, the film needs to be replaced;
3. When the tread marks of the outer tire are worn to smooth or cracked or damaged, they must be replaced. When the inner tire is damaged and cannot be inflated, the tire must be replaced or replaced;
4. Inner tire must be replaced when air leakage occurs; the rim is deformed and needs to be replaced in time;
5. When the tire spoke is damaged or rusted, it must be replaced
6. It can be replaced when the chain is deformed and the length is extended by 1%, and can be measured with a tool. It should also be replaced when severely rusted.
7. The tip of the freewheel wheel or the tooth disc becomes sharp due to wear, and it must be replaced when it makes a strange noise and is not well bitten.

Please read the above suggestions and precautions carefully and use them strictly in accordance with this standard during the bike using.

6 Service

After sales service is available through your retailer.

7 Pre Delivery Inspection check list

The PDI is a critical part of the overall Quality Assurance process and must be completed by the supplying dealer followed by a test ride and sign off before passing the bike to the customer.

The following items below are a generic list for all current Accolmile models and must be covered during the PDI.

Item Check off by No.	Activity Mechanical Parts	Notes
1	Check front and rear wheel for alignment and run out.	Tighten spokes if necessary.
2	Check tightness of rear axle nuts and front quick	Tighten to torque setting in

	release.	user manual.
3	Check tire pressure front and rear.	Inflate to correct pressure.
4	Check and adjust action of front and rear brakes.	Ensure there is no noise or squeal.
5	Check smooth action and adjustment of front suspension forks.	
6	Check adjustment of bearings in head stock.	Adjust if necessary.
7	Check security of all handlebar stem fixings and clamps.	Adjust to suit customer preferences.
8	Check front and rear mudguards for security and clearance from tires.	
9	Check all cables are clipped securely and safely.	Check motor cable cannot rub against the tire.
10	Check pedals have been fitted correctly and tightened fully.	Note left and right hand threads.
11	Check pedal cranks have been tightened fully on bottom bracket axle.	Tighten to torque setting in user and service manual.
12	Check smoothness and running clearance of bottom bracket.	
13	Check seat post quick release clamp is properly in place and secure and saddle is correctly fitted.	Adjust as necessary.
14	Check smooth operation of gear change on either derailleur or hub gear and ensure all gears can be selected.	Adjust as necessary.
15	Ensure side stand supports bike correctly and does not interfere with other moving cycle parts.	
16	Ensure motor wheel turns smoothly and quietly when rotated by hand in forward and reverse direction.	Some additional resistance will be felt when rotated in reverse.
17	Ensure correct chain tension.	
18	Ensure chain guard is not rubbing on models equipped with guard.	
19	Ensure all reflectors are in place on pedals, wheels	

	etc.	
	Electrical Parts	
1	Fit and check correct operation of front and rear lights.	
2	Check connections for installed components.	
3	Check throttle returns smoothly to closed position.	Adjust if necessary.
4	Check functionality of LCD display.	Includes selection of five power assist levels, speed readout, and all functions are correct as described in the user manual.
5	Check battery locates properly and locks in place securely.	Ensure keys are present.
6	Charge battery off the bike and check charger and battery functions correctly.	Check status lights on battery.
	Road Test	
1	Road test the bike in a safe environment to test functionality of both electrical and cycle systems as described in the user manual - check noise and performance levels.	Adjust / correct after test ride.
2	Notify our support if any manufacturing faults are identified, providing photographs if possible of any faulty components.	
3	Run through the bike operation, battery charging and storage instructions and offer safety advice to the customer.	

7 DEALER MANUAL FOR DP C244.CAN/ DP C245.CAN



CONTENT

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7.1 IMPORTANT NOTICE

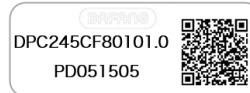
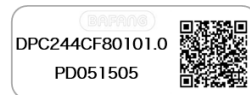
- If the error information from the display cannot be corrected according to the instructions, please contact your retailer.
- The product is designed to be waterproof. It is highly recommended to avoid submerging the display under water.
- Do not clean the display with a steam jet, high-pressure cleaner or water hose.
- Please use this product with care.
- Do not use thinners or other solvents to clean the display. Such substances can damage the surfaces.
- Warranty is not included due to wear and normal use and aging.

7.2 INTRODUCTION OF DISPLAY

- Model: DP C244.CAN/ DP C245.CAN
- The housing material is ABS; the LCD display windows is made of tempered glass:



- The label marking is as follows:



- **Note:** Please keep the QR code label attached to the display cable. The information from the Label is used for a later possible software update.

7.3 PRODUCT DESCRIPTION

7.3.1 Specifications

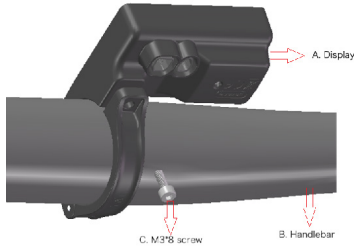
- Operating temperature: -20 °C~45 °C
- Storage temperature: -20 °C~60 °C
- Waterproof: IP65
- Storage Humidity: 30%-70% RH

7.3.2 Functional Overview

- CAN communication protocol
- Speed indication (including the real-time speed, max. speed and average speed)
- Unit switching between km and mile
- Battery capacity indicator
- Automatic sensors explanation of the lighting system
- Brightness setting for backlight
- 6 power assist modes
- Mileage indication (including single-trip distance TRIP and total distance ODO, the highest mileage is 99999)
- Intelligent indication (including remaining distance RANGE and energy consumption CALORIE)
- Error code indication
- Walk assistance
- USB charge (5V and 500mA)
- Service indication
- Bluetooth Function (only in DP C245.CAN)

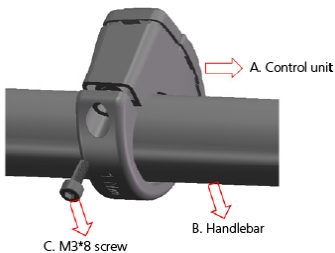
7.4 DISPLAY INSTALLATION

1. Open the clamp of display and place the display on to the handlebar in the correct position. Now with M3*8 screw C tighten the display. Torque requirement: 1N.m.



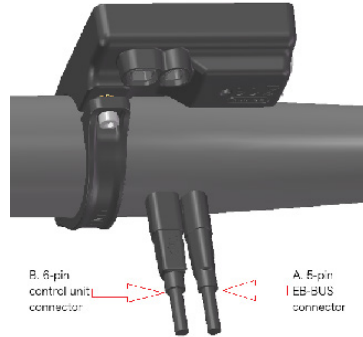
i Note: The diameter of diaplay clamp is $\Phi 35\text{mm}$. According to the diameter of the handlebar you can choose whether to need a rubber ring ($\Phi 22.2$, $\Phi 25.4$ or $\Phi 31.8$).

2. Open the clamp of control unit and place it on to the handlebar in the correct position. Now with M3*8 screw C tighten the control unit. Torque requirement: 1N.m.



i Note: The diameter of control unit clamp is $\Phi 22.2\text{mm}$.

3. Connect the 5-pin EB-BUS connector and 6-pin control unit connector with the display main body.



7.5 DISPLAY




- 1 Headlight indication
- 2 USB charge indication
- 3 Service indication
- 4 Bluetooth indication
(only light up in DP C245.CAN)
- 5 Power assist mode indication
- 6 Multifunction indication
- 7 Battery capacity indication
- 8 Speed in real-time


7.6 KEY DEFINITION



7.7 NORMAL OPERATION

7.7.1 Power ON/OFF



Press  and hold (>2S) to power on the HMI, and the HMI begin to show the boot up LOGO.

Press  and hold (>2S) again to power off the HMI.

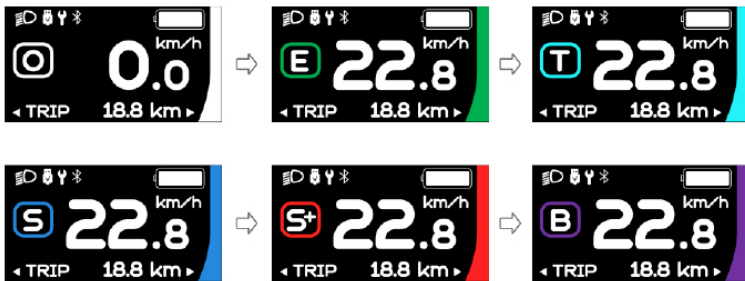
If the automatic shutdown time is set to 5 minutes (set in function "Auto Off"), the HMI will be automatically turned off within this set time, when it is not operated.



7.7.2 Power Assist Mode Selection

When HMI powers on, briefly press  or  to select the power assist mode and change the output power. The lowest mode is E, the highest mode is B (which can be set). On the default is mode E, number "0" means no power assistance.

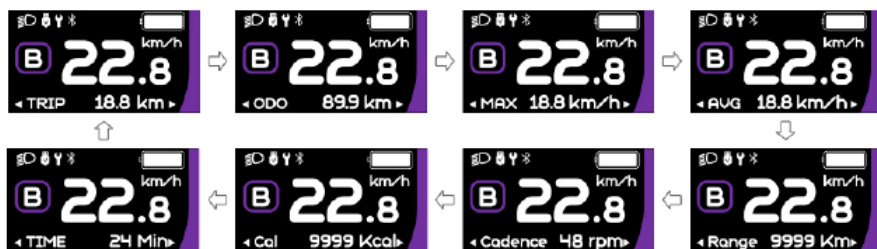
Mode	Color	Definition
Eco	green	the most economic mode
Tour	blue	the most economic mode
Sport	indigo	the sport mode
Sport+	red	the sport plus mode
Boost	purple	the strongest sport mode



7.7.3 Multifunction Selection

Briefly press  button to switch the different function and information.

Circularly show single trip distance (TRIP,km) → total distance (ODO,km) → maximum speed (MAX,km/h) → average speed (AVG,km/h) → remaining distance (Range,km) → riding cadence (Cadence,rpm) → energy consumption (Cal,KCal) → riding time (TIME,min) → cycle.

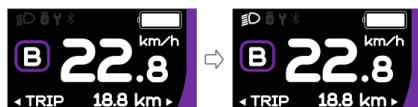


7.7.4 Headlights / Backlighting

Press and hold  (>2S) to turn on the headlight and reduce the backlight brightness.







Press and hold  (>2S) again to turn off the headlight and increase the backlight brightness.

The brightness of backlight can be set in function "Brightness" within 5 levels.



7.7.5 Walk Assistance

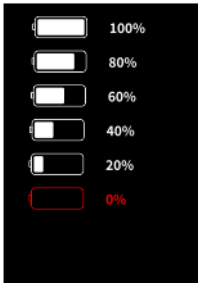
Note: The walk assistance can only be activated with a standing pedelec.

Briefly press  button until this symbol  appears. Next keep pressing the  button until the walk assistance is activated and the  symbol is flashing.(If no speed signal is detected, the real-time speed is shown as 2.5km/h.) Once releasing the  button, it will exit the walk assistance and the  symbol stops flashing. If no operation within 5s, the display will automatically return to 0 mode.



7.7.6 Battery Capacity Indication

The percentage of current battery capacity and total capacity is displayed from 100% to 0% according to the actual capacity.



7.7.7 USB Charge Function

When the HMI is off, insert the USB device to the USB charging port on the HMI, and then turn on HMI to charge. When the HMI is on, it can direct charge for USB device. the maximum charging voltage is 5V and the maximum charging current is 500mA.



7.7.8 Bluetooth Function

Note: Only DP C245.CAN is the Bluetooth version.

This display can be connected to the Bafang Go APP through Bluetooth. The customer also can develop their own app based on the SDK provided by BAFANG.






This display can be connected to the SIGMA heartbeat band and shows it on display, and can also send data to the mobile phone.

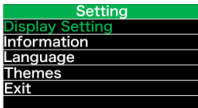


The data that can be sent to the mobile phone are as follow:






No.	Function
1	Speed
2	Battery capacity
3	Support level
4	Battery info.
5	Energy consumption
6	System part info.
7	Current
8	Current level
9	Heartbeat
10	Single distance
11	Total distance
12	Headlight status
13	Error code

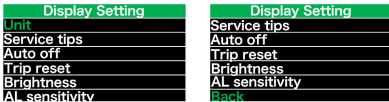
7.8 SETTINGS

After the HMI powered on, press and hold  and  button (at the same time) to enter into the setting interface. Briefly press (<0.5S)  or  button to select "Setting", "Information" or "Exit", then briefly press (<0.5S)  button to confirm.









7.8.1 "Setting" interface

After the HMI powered on, press and hold  and  button to enter into the setting interface. Briefly press (<0.5S)  or  to select "Setting" and then briefly press  (<0.5S) to confirm.






7.8.1.1 "Unit" Selections in km/Miles




Briefly press  or  to select "Unit", and briefly press  to enter into the item. Then choose between "Metric" (kilometer) or "Imperial" (mile) with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.

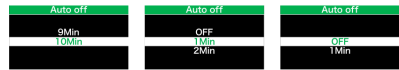


Note: If you choose "Metric", all the data displayed on the HMI are metric.

7.8.1.2 "Auto Off" Set automatic Off time







Briefly press  or  to select "Auto Off", and briefly press  to enter into the item.

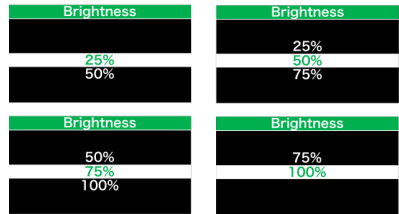
Then select the automatic Off time as "OFF"/"1"/"2"/"3"/"4"/"5"/"6"/"7"/"8"/"9"/"10" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.









Note: "OFF" means the "Auto Off" function is off.

7.8.1.3 "Brightness" Display brightness

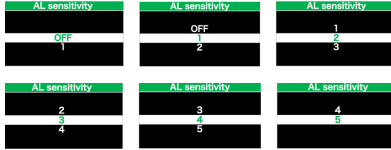
Briefly press  or  to select "Brightness", and briefly press  to enter into the item. Then select the percentage as "100%"/"75%"/"50%"/"25%" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.



7.8.1.4 "AL Sensitivity" Set light sensitivity

Briefly press  or  to select "AL Sensitivity", and briefly press  to enter into the item. Then select the level of the light sensitivity as "OFF"/"1"/"2"/"3"/"4"/"5" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.

Note: "OFF" means light sensor is off. Level 1 is the weakest sensitivity and level 5 is the strongest sensitivity.



7.8.1.5 "TRIP Reset" Set reset function for single-trip

Briefly press or to select "TRIP Reset", and briefly press to enter into the item. Then select "NO"/"YES" ("YES"-to clear, "NO"-no operation) with the or button. Once you have chosen your desired selection, press the (<0.5S) to save and exit back to the "Setting" interface.

Note: The riding time(TIME), average speed (AVG) and maximum speed (MAXS) will be reset simultaneously when you reset TRIP.



7.8.1.6 "Service" Turn on/off the Service indication

Briefly press or to select "Service", and briefly press to enter into the item. Then select "OFF"/"ON" ("ON" means Service indication is on; "OFF" means Service indication is off) with the or button. Once you have chosen your desired selection, press the (<0.5S) to save and exit back to the "Setting" interface.

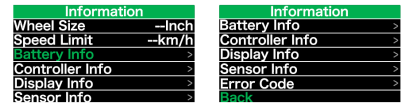


Note: The default setting is OFF. If the ODO is more than 5000 km, the "Service" indication and mileage indication will flash for 4S.



7.8.2 "Information"

After the HMI powered on, press and hold and to enter into the setting function. Briefly press (<0.5S) or to select "Information" and then briefly press (<0.5S) to confirm.



Note: All information here cannot be changed, it is to be viewed only.

7.8.2.1 "Wheel Size"

After entering the "Information" page, you can see "Wheel Size --Inch" directly.



7.8.2.2 "Speed Limit"


After entering the "Information" page, you can see "Speed Limit --km/h" directly.



7.8.2.3 "Battery Info"

Briefly press or to select "Battery Info", and briefly press to enter, then briefly press or to view the battery data (b01 → b04 → b06 → b07 → b08 → b09).

→ b10 → b11 → b12 → b13 → d00 → d01 → d02 → ... → dn).

Press the  button (<0.5S) to exit back to the "Information" interface.

Note: If the battery doesn't have communication function, you won't see any data from battery.

View the battery information

Battery Info	
Back	
Next Page...	
Temp	28C
Total Volt	45090mA
Current	-40mA
Res Cap	6AH
Page:1/7	

Battery Info	
Back	
Next Page...	
Full Cap	9AH
RelChargeState	69%
AbsChargeState	71%
Page:2/7	

View the hardware and software version of battery

Battery Info	
Back	
Next Page...	
Cycle Times	39
M.N.T	1248H
M.N.T	1968H
Cell	12
Page:3/7	






Battery Info	
Back	
Next Page...	
SW:	BT C01.450.UC 1.3
HW:	BT C01.450.UC C113016
Page:4/7	


Code	Code Definition	Unit
b01	Current temperature	℃
b04	Battery voltage	mV
b06	Current	mA
b07	Remaining battery capacity	mAh
b08	Battery capacity of Full charged	mAh
b09	Relative SOC	%
b10	Absolute SOC	%
b11	Cycle Times	times
b12	Max Uncharge Time	Hour
b13	Last Uncharge Time	Hour

Code	Code Definition	Unit
d00	The number of cell	
d01	Voltage Cell 1	mV
d02	Voltage Cell 2	mV
dn	Voltage Cell n	mV

NOTE: If no data is detected, "--" will be displayed.






7.8.2.4 "Display Info"


Briefly press  or  to select "Display Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

Press the  button (<0.5S) to exit back to the "Information" interface.

Display Info	
Back	
SW:	DPC244CF80101.0
HW:	DP C244.C1.0






7.8.2.5 "Ctrl Info"


Briefly press  or  to select "Ctrl Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

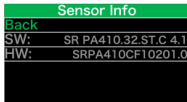
Press the  button (<0.5S) to exit back to the "Information" interface.

Controller Info	
Back	
SW:	CR X10V.350.FC 3.0
HW:	CRX10VC4313hT02028.1

7.8.2.6 "Sensor Info"







Briefly press  or  to select "Sensor Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

Press the  button (<0.5S) to exit back to the "Information" interface.




NOTE: If your Pedelec doesn't have torque sensor, "--" will be displayed.

7.8.2.7 "Error Code"

Briefly press  or  to select "Error Code", and then briefly press  to enter, briefly press  or  to view message of error for last ten times by "E-Code00" to "E-Code09". Press the  button (<0.5S) to exit back to the "Information" interface.



7.9 ERROR CODE DEFINITION

 The HMI can show the faults of Pedelec. When a fault is detected, one of the following error codes will be indicated too.



Note: Please read carefully the description of the error code. When the error code appears, please first restart the system. If the problem is not eliminated, please contact your dealer or technical personnel.

Error	Declaration	Troubleshooting
04	The throttle has fault.	<ol style="list-style-type: none"> 1. Check the connector and cable of the throttle are not damaged and correctly connected. 2. Disconnect and reconnect the throttle, if still no function please change the throttle.
05	The throttle is not back in its correct position.	Check the connector from the throttle is correctly connected. If this does not solve the problem, please change the throttle.
07	Overvoltage protection	<ol style="list-style-type: none"> 1. Remove and re-Insert the battery to see if it resolves the problem. 2. Using the BESST tool update the controller. 3. Change the battery to resolve the problem.
08	Error with the hall sensor signal inside the motor	<ol style="list-style-type: none"> 1. Check all connectors from the motor are correctly connected. 2. If the problem still occurs, please change the motor.
09	Error with the Engine phase's	Please change the motor.
10	The temperature inside the engine has reached its maximum protection value	<ol style="list-style-type: none"> 1. Turn off the system and allow the Pedelec to cool down. 2. If the problem still occurs, please change the motor.
11	The temperature sensor inside the motor has an error	Please change the motor.
12	Error with the current sensor in the controller	Please change the controller or contact your supplier.

Error	Declaration	Troubleshooting
13	Error with the temperature sensor inside of the battery	<ol style="list-style-type: none"> 1. Check all connectors from the battery are correctly connected to the motor. 2. If the problem still occurs, please change the Battery.
14	The protection temperature inside the controller has reached its maximum protection value	<ol style="list-style-type: none"> 1. Allow the pedelec to cool down and restart the system. 2. If the problem still occurs, please change the controller or contact your supplier.
15	Error with the temperature sensor inside the controller	<ol style="list-style-type: none"> 1. Allow the pedelec to cool down and restart the system. 2. If the problem still occurs, Please change the controller or contact your supplier.
21	Speed sensor Error	<ol style="list-style-type: none"> 1. Restart the system 2. Check that the magnet attached to the spoke is aligned with the speed sensor and that the distance is between 10 mm and 20 mm. 3. Check that the speed sensor connector is connected correctly. 4. Connect the pedelec to BESST, to see if there is a signal from the speed sensor. 5. Using the BESST Tool- update the controller to see if it resolves the problem. 6. Change the speed sensor to see if this eliminates the problem. If the problem still occurs, please change the controller or contact your supplier.
25	Torque signal Error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. Please connect the pedelec to the BESST system to see if torque can be read by the BESST tool. 3. Using the BESST Tool update the controller to see if it resolves the problem, if not please change the torque sensor or contact your supplier.

Error	Declaration	Troubleshooting
26	Speed signal of the torque sensor has an error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. Please connect the pedelec to the BESST system to see if speed signal can be read by the BESST tool. 3. Change the Display to see if the problem is solved. 4. Using the BESST Tool update the controller to see if it resolves the problem, if not please change the torque sensor or contact your supplier.
27	Overcurrent from controller	Using the BESST tool update the controller. If the problem still occurs, please change the controller or contact your supplier.
30	Communication problem	<ol style="list-style-type: none"> 1. Check all connections on the pedelec are correctly connected. 2. Using the BESST Tool run a diagnostics test, to see if it can pinpoint the problem. 3. Change the display to see if the problem is solved. 4. Change the EB-BUS cable to see if it resolves the problem. 5. Using the BESST tool, re-update the controller software. If the problem still occurs please change the controller or contact your supplier.
33	Brake signal has an error (If brake sensors are fitted)	<ol style="list-style-type: none"> 1. Check all connectors are correctly connected on the brakes. 2. Change the brakes to see if the problem is solved. <p>If problem continues Please change the controller or contact your supplier.</p>
35	Detection circuit for 15V has an error	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.
36	Detection circuit on the keypad has an error	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.

Error	Declaration	Troubleshooting
37	WDT circuit is faulty	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.
41	Total voltage from the battery is too high	Please change the battery.
42	Total voltage from the battery is too low	Please Charge the battery. If the problem still occurs, please change the battery.
43	Total power from the battery cells is too high	Please change the battery.
44	Voltage of the single cell is too high	Please change the battery.
45	Temperature from the battery is too high	Please let the pedelec cool down. If problem still occurs, please change the battery.
46	The temperature of the battery is too low	Please bring the battery to room temperature. If the problem still occurs, please change the battery.
47	SOC of the battery is too high	Please change the battery.
48	SOC of the battery is too low	Please change the battery.
61	Switching detection defect	1. Check the gear shifter is not jammed. 2. Please change the gear shifter.
62	Electronic derailleur cannot release.	Please change the derailleur.
71	Electronic lock is jammed	1. Using the BESST tool update the Display to see if it resolves the problem. 2. Change the display if the problem still occurs, please change the electronic lock.
81	Bluetooth module has an error	Using the BESST tool, re-update the software onto the display to see if it resolves the problem. If not, Please change the display.

7.10 WARN CODE DEFINITION

Error	Declaration	Troubleshooting
28	Torque sensor's initialization is abnormal.	Restart the system and note not to step on the crank hard when restarting.