

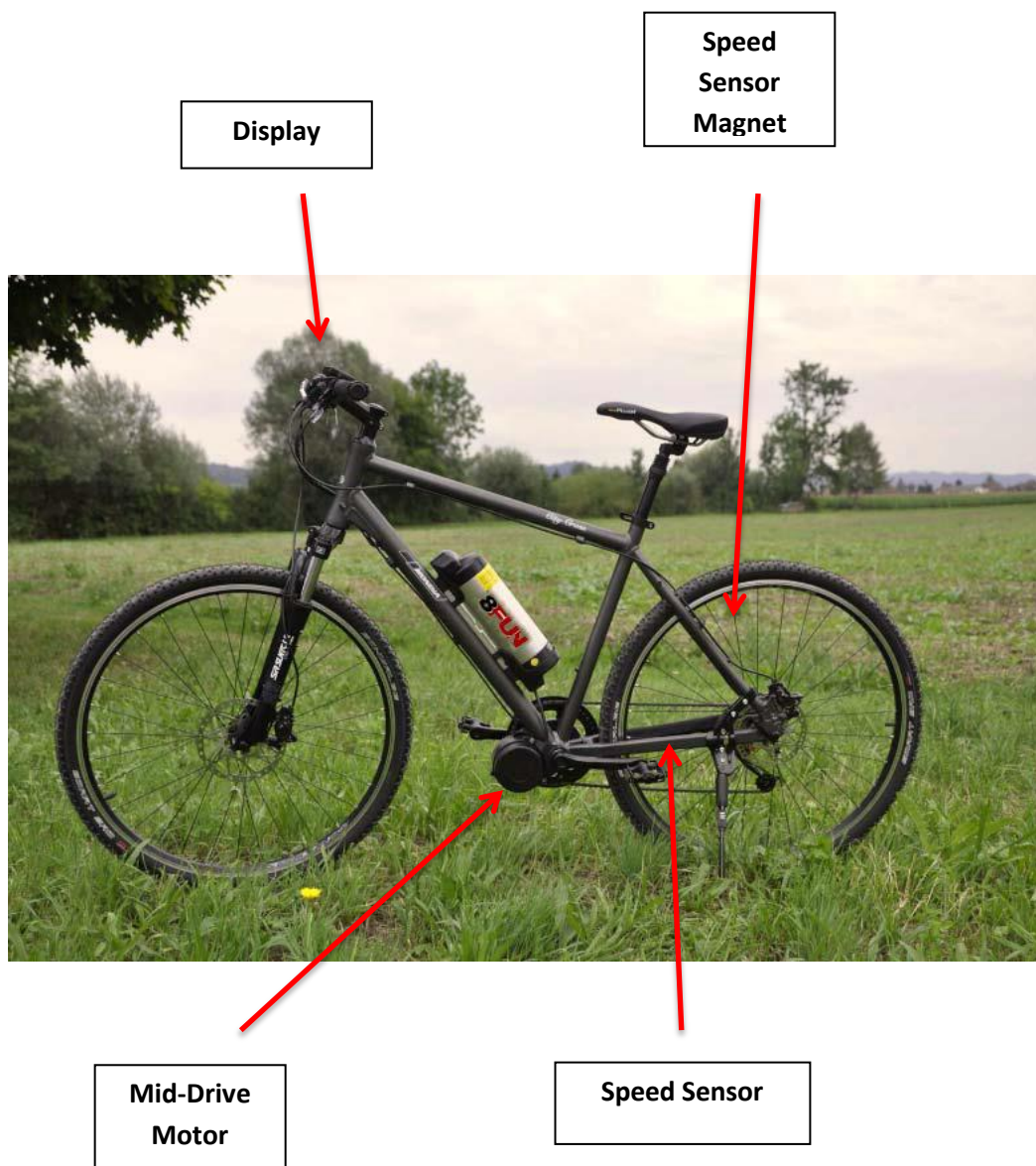
BAFANG BBS01/BBS02 Installation Manual



BAFANG

System Overview

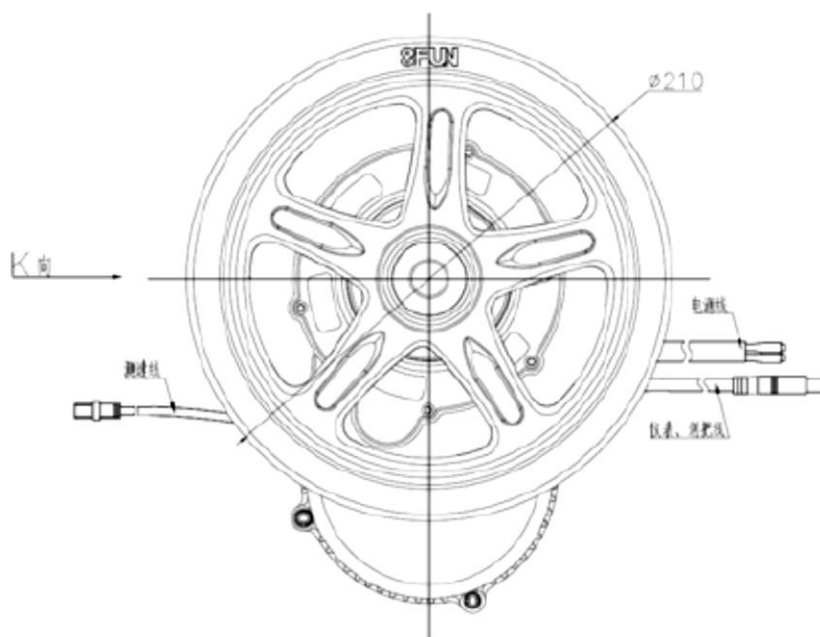


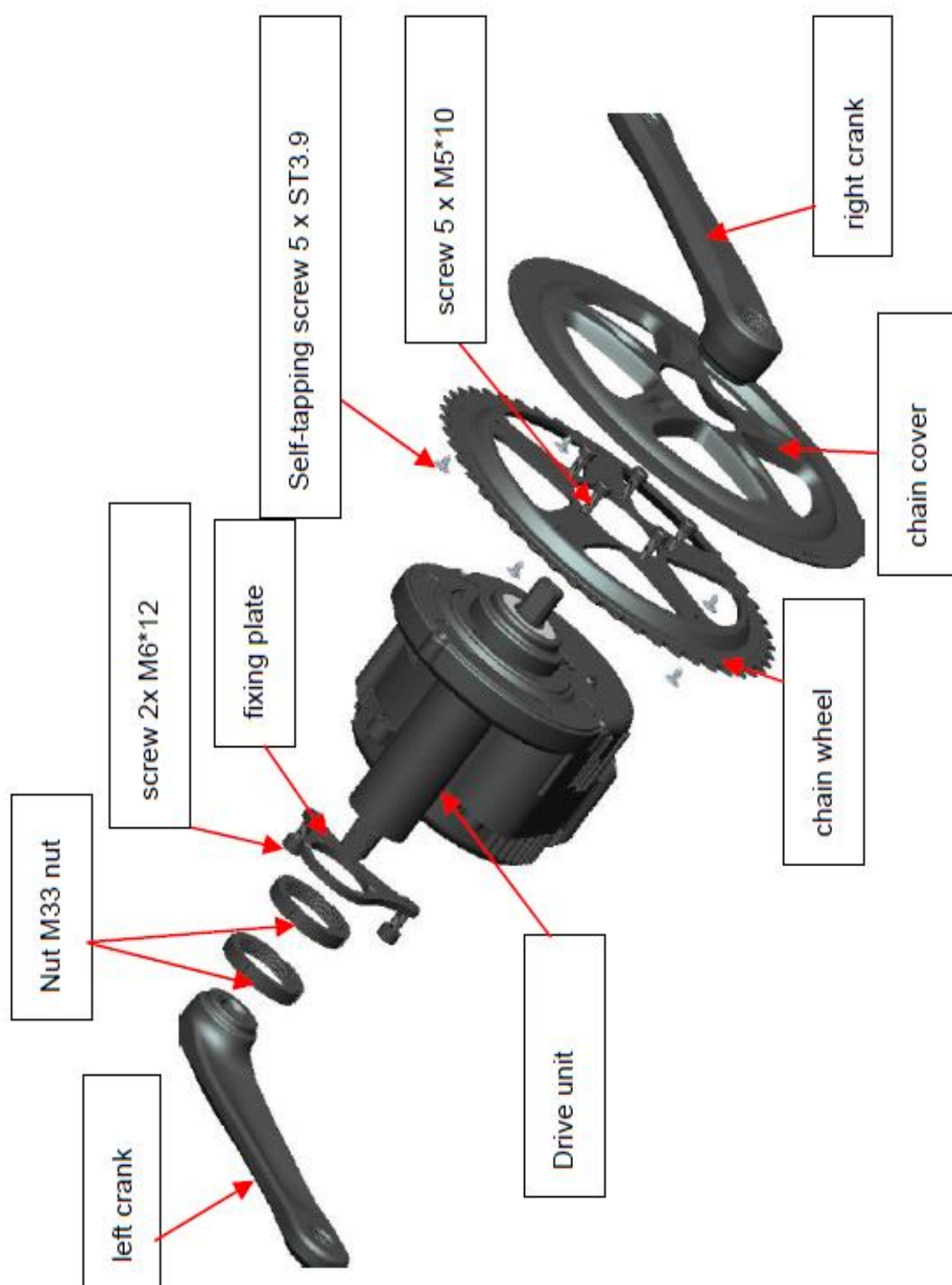


Technical Parameters for 250W, 36V Motor

Voltage		DC36V						
Limit current		15A						
Limit speed		25KM/H						
Motor weight		3.7KG						
Chain wheel tooth		46T						
no-load value		Rated value					Max value	
current (A)	speed (RPM)	Output power (W)	speed (RPM)	efficiency (%)	torque (N·m)	current (A)	MAX torque	MAX efficiency (%)
≤1.0	83±5	250	78±5	≥80%	≥30	≤9	≥80N.m	≥80%

Installation Diagrams





Installation Procedures

1. Open the package and take out the drive unit and accessories.
Check whether the specifications of the motor are correct. Check that all accessories and wiring have been included in the box as per the packing list.
2. Fix the chain wheel on drive unit with 5pcs screw M5*10, (see picture 1), then fix chain cover (optional) on chain wheel with 5pcs screw ST3.9. **Do not use Loctite with these bolts.**

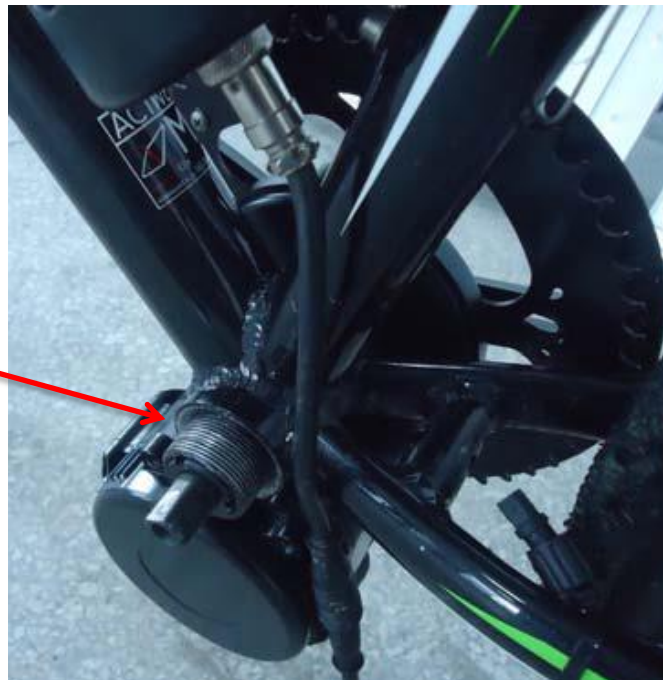


3. Carefully feed the drive unit axle through the bottom bracket. If you encounter resistance your BB shell may need to have burs / weld overflow smoothed with a rounded file.



Make sure the thread of the axle tube extends beyond the bottom bracket more than 10mm. Please note that for 73mm bottom brackets this may be less.

Axle Thread



4. With the teeth on the fixing plate facing inwards, fix the plate on the drive unit with 2 pieces of M6 x 10mm bolt. Use Loctite if you wish.



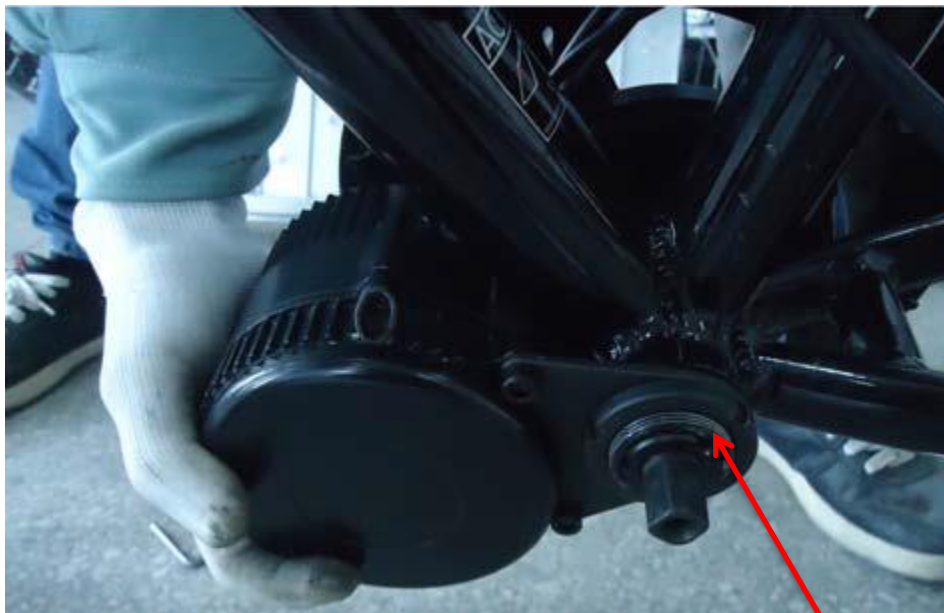
Fixing Plate Teeth
(Outside when fitted)



Fixing Plate (Outside
Surface Without
Teeth)

2 x M6 Bolts

5. Hold the drive unit up against the frame and tighten the M6 x 10mm bolts and M33 nut simultaneously. Tighten M33 with force 30-40Nm. If you purchased an installation toolkit use the BBB Lockring tool.

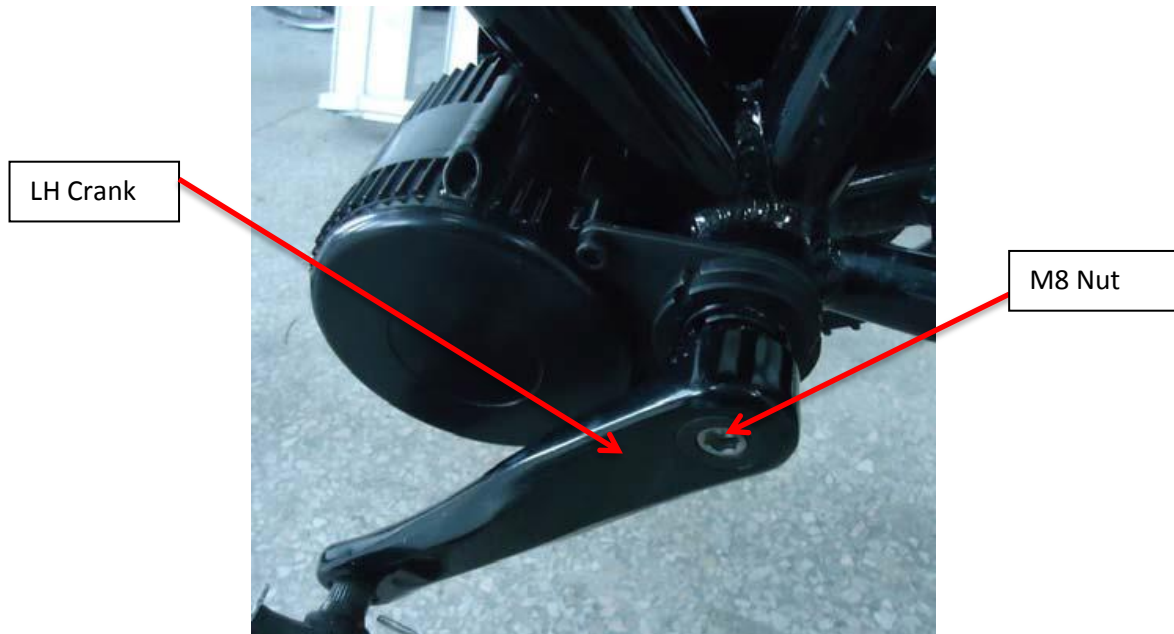


M33 Nut

6. Once this has been tightened fit the BB cup over the M33 (20-30Nm)



7. Fix the LH crank on the bike with the M8 inner hex bolt. Tightening force 35-40Nm. Use Loctite if you wish as this bolt is prone to loosening.



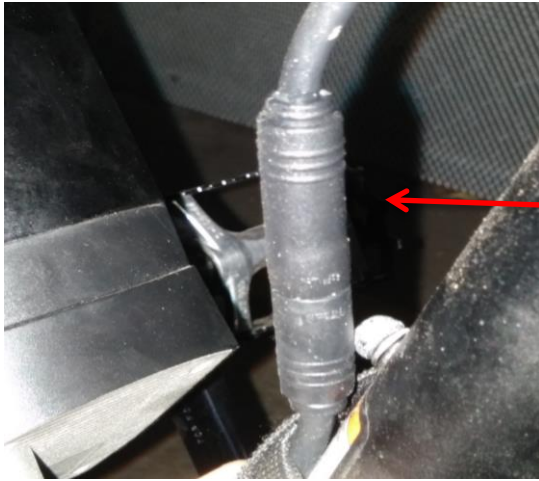
8. Fix the RH crank on the bike with the M8 inner hex bolt. Tightening force 35-40Nm. Use Loctite if you wish as this bolt is prone to loosening.



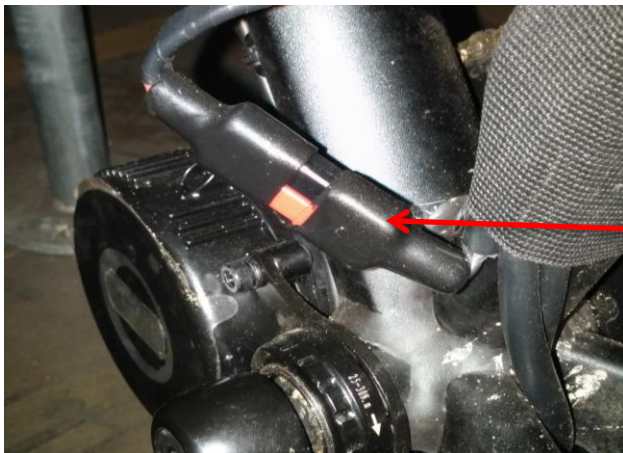
Note:

It is very important you do not confuse the left and right cranks - as this will lead to malfunction or serious damage!

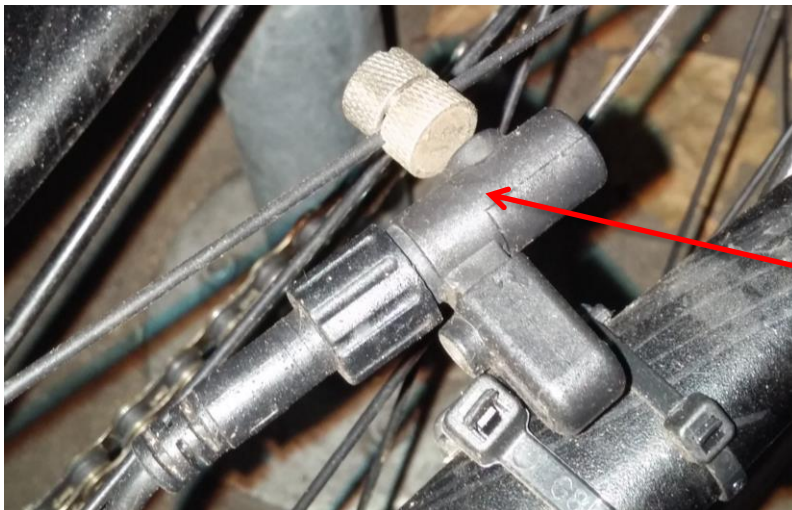
9. Connect waterproof harness, Anderson connectors for battery and the speed sensor to the motor unit.



Waterproof Wiring Harness

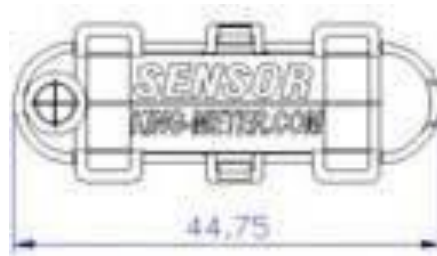


Anderson Battery Connectors
(You may choose your own connectors provided they have a similar current rating of 40a)

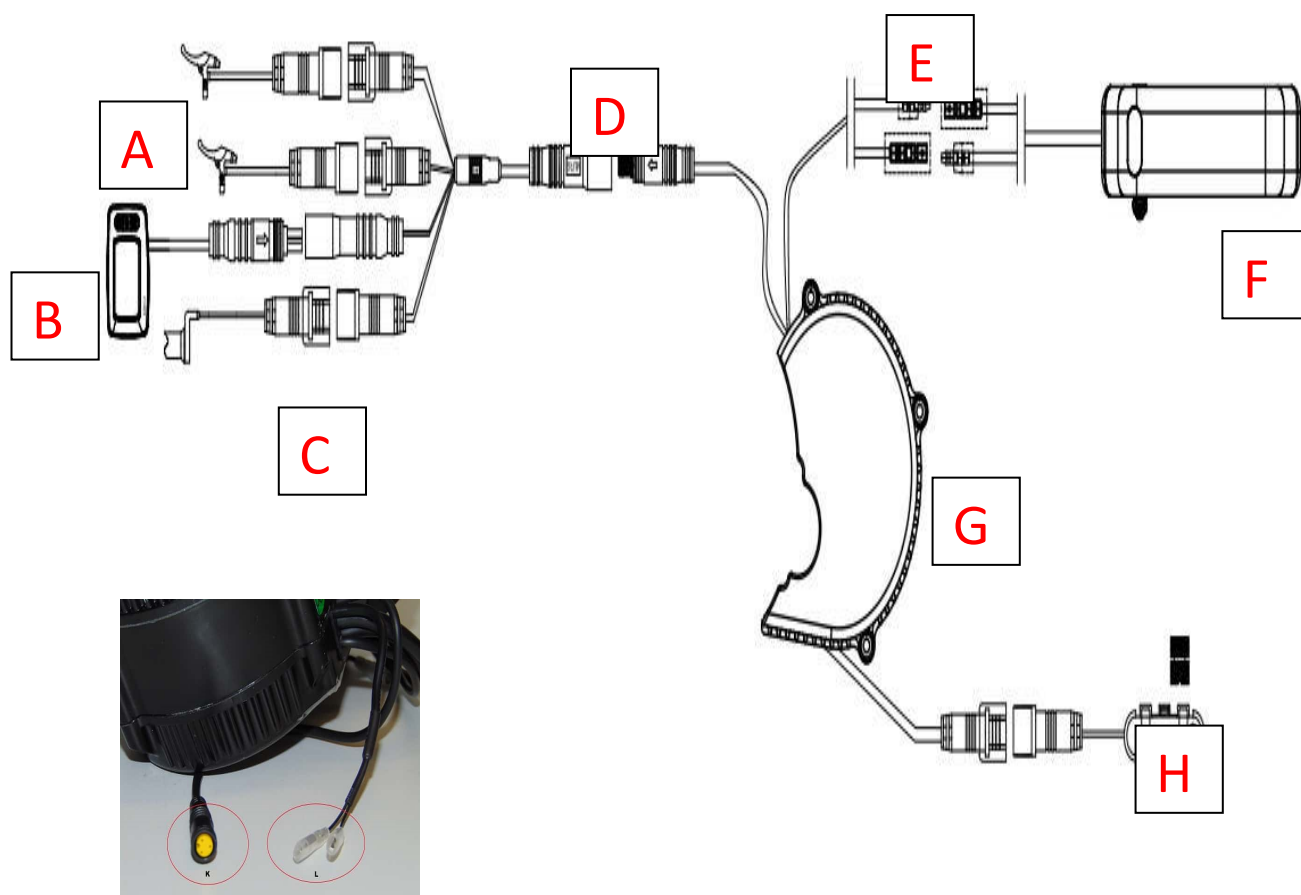


Speed Sensor – Optimal position of magnet is less than 5mm from Sensor on rear wheel.

10. Speed Sensor Mounting. The images below give a clearer indication on how to mount the magnet and sensor. Sensor design may vary from images below.



11. Component Connection Diagram



A – Brake Cutoff / Magnetic Sensor Plugs (2) – Yellow – Female At Harness

B – C961 Display – Green – Male at Harness

C – Throttle – Yellow – Male at Harness

D – Main Harness waterproof connection

E – Battery Connectors

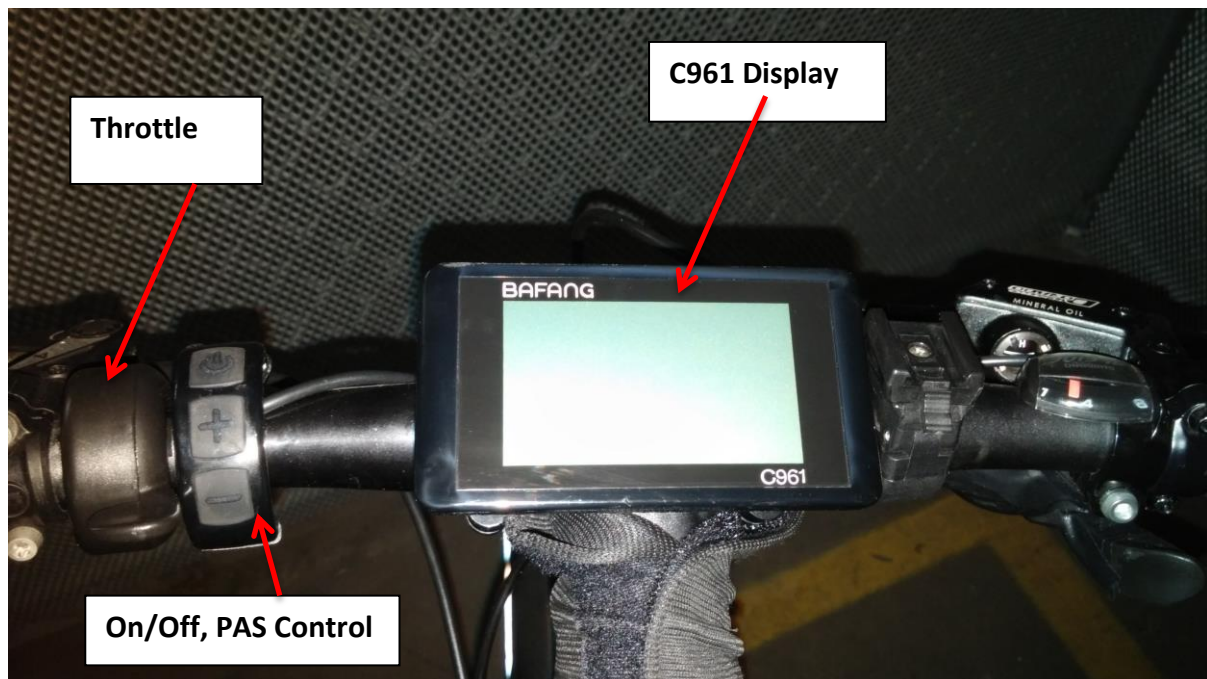
F – Battery G – Controller

H – Speed Detecting Sensor

K - connector for gearsensor (where applicable)

L - connector for light 6V (where applicable)

12. Location of Display, Throttle, On/Off & PAS Controls. The image below shows a common setup with the throttle on the left hand side. You will need to remove grips and other components to install these.



Packing List

1. BBS01 / 02 Motor
2. Display
3. Brakes / Cutoff Sensor (2 pieces)
4. EB-BUS Cable
5. Fixing Plate (with teeth)
6. Chain Wheel and Chan Whee Cover
7. Cranks (2 pieces)
8. M5 x 10mm Nut (5 pieces)
9. M6 x 12mm Nut (2 pieces)
10. M33 Nut And Cup (2 Pieces)
11. ST 3.7 Nut (2 Pieces)
12. Speed Detection Sensor
13. Speed Detection Magnet

Warranty

The general warranty does not cover or apply to the following:

- 1) Damage, failure and/or loss caused by refitting, neglect, improper maintenance, competition or commercial purpose, misuse, abuse or accident*
- 2) Damage, failure and/or loss caused by shipping*
- 3) Damage, failure and/or loss caused by improper installation, adjusting or repairing*
- 4) Damage, failure and/or loss irrelevant to material and workmanship, e.g., failure to follow instructions by consumers*
- 5) Damage, failure and/or loss caused by product's appearance and surface change which doesn't affect its function*
- 6) Damage, failure and/or loss caused by unauthorized service or installation*
- 7) Damage, failure or loss caused by normal wear and tear.*
- 8) Re-programming the controller will void any warranty.*