

6 DEALER MANUAL FOR H400B (FM G020.250.350.500.D)



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6.1 SAFETY INSTRUCTION



For safety, be sure to read this manual thoroughly before use, and follow it for correct use.

Save all safety warnings and instructions for future reference.

- **Observe all national regulations which set out the approved use of e-bikes.**
- **Do not attempt to change the performance of the product. Especially increase the power of the drive unit or the maximum speed that it supports.**

Doing this may put yourself and others at risk, and you may also breach statutory regulations.

- **Do not disassemble the drive unit yourself. The drive unit must only be repaired by qualified personnel using only original spare parts.**

This will ensure that the safety of the drive unit is maintained. Unauthorised opening of the drive unit will render warranty claims null and void.

- **Be sure to follow the instructions in the manuals when installing the product.**

Only use Bafang original components and spare parts. If a component or spare part is incorrectly assembled or adjusted, it can lead to product failure or accident.

- **In order to protect the electric parts, before disassembling the product, switch off the system power first by pressing the control unit of HMI and then disconnect the power cable.**

When installing the product, fix the parts first, then connect the power cable, and finally switch on the system power by pressing the control unit of HMI.

- **After a ride, do not allow your unprotected hands or legs to come into contact with the motor housing.**

Under extreme conditions, such as continuously high torques at low travel speeds, or when riding up hills or carry loads, the housing may reach a very high temperature.

- **Be sure to also inform users of the following safety information and instructions.**

- Observe the instructions in the user manual in order to ride safely.
- Observe the appropriate rules and regulations of the country, state or region in which you use the e-bikes.
- Use the product under the supervision of someone responsible for safety, and only as instructed. - Do not allow anyone (including children) with reduced physical, sensual, or mental capacity, or those without experience or knowledge, to use the product.
- Do not allow children to play near the product.
- Never modify the performance parameters. Doing so may cause a system error or legal question.
- If any malfunction or trouble occurs, consult the place of purchase.
- For any questions regarding methods of installation and maintenance of the product, consult the place of purchase.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.

6.2 PRODUCT DESCRIPTION

6.2.1 Basic Information

- **Model**

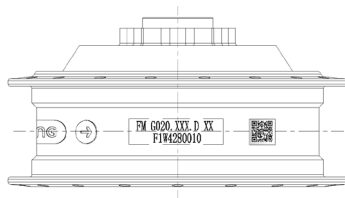
FM G020.250.350.500.D

- **Appearance**



- **Nameplate**

The following figure shows the laser mark and/or QR code label on the motor housing.



⚠ WARNING

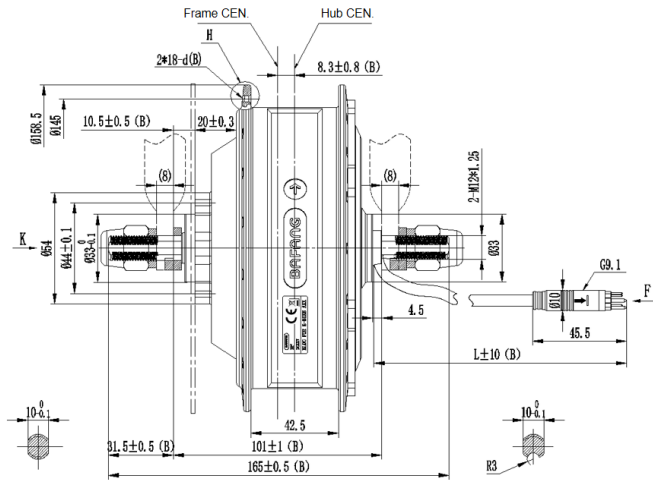
It is forbidden to maliciously erase, polish, stain the laser mark and/or QR code label, otherwise no after-sales service will be provided.

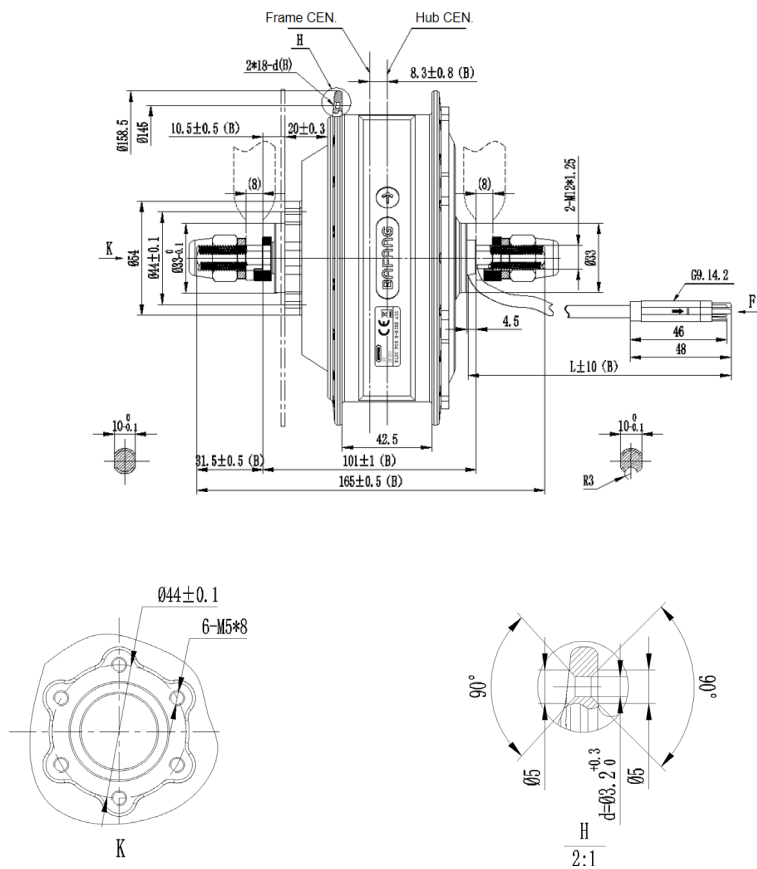
6.2.2 Technical Specification

Item	Parameters			
Rated Voltage	36V			
Rated Power	250W	350W	250W	350W
Max. Torque	30N.m	40N.m	40N.m	50N.m
Operating Temperature	-20~45°C			
Storage Temperature	10~40°C			
Protection Rating	IPX6			
Weight (approx.)	3.3kg			

Item	Parameters		
Rated Voltage	48V		
Rated Power	250W	350W	500W
Max. Torque	40N.m	45N.m	55N.m
Operating Temperature	-20~45°C		
Storage Temperature	10~40°C		
Protection Rating	IPX6		
Weight (approx.)	3.3kg		




6.2.3 Overall Dimension





6.3 INSTALLATION

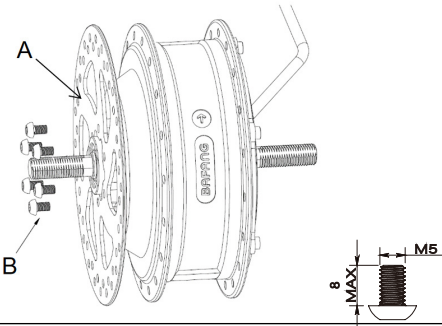
6.3.1 List of Tools to be Used

Diagram	Name
	4mm Hex wrench
	19mm Open-end wrench
	19mm Plum wrench

6.3.2 Installation Steps


1

Place the disc brake onto the motor axle from the left side and tighten it with 6 M5*8 hex screws.



(A) Disc brake
(B) M5*8 Hexagon screw

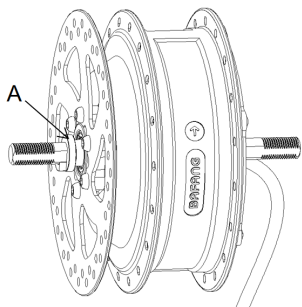
Tool



Tightening torque

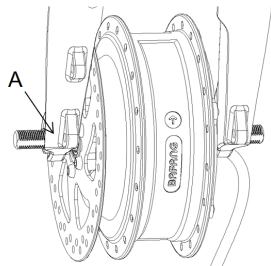
4 N.m

Place a stop pin onto the motor axle from the left side.



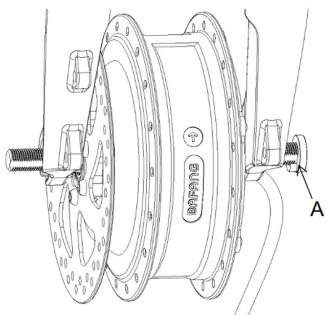
(A) Stop pin

Install the motor into the frame.



(A) Frame

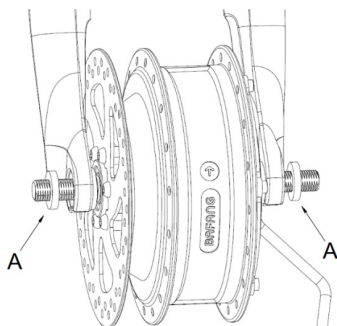
Place a stop pin onto the motor axle from the right side.



(A) Stop pin

Place two 4mm bushes onto the motor axle from both sides respectively.

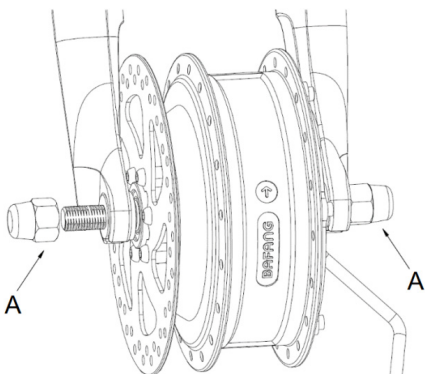
5



(A) 4mm Bush

Install 2 M12 cap nuts onto the motor axle from the both sides, and tighten them with a 19 mm wrench.

6



(A) Cap nut

Tool



Tightening torque

47-60N.m

TECH TIPS

To avoid short circuit due to water, the motor power cord should be extended along the front fork to ensure the cabling hole faces the ground. The power cord of 6.3 mm can be through the cable groove.

6.4 OPERATION

- Environmental conditions for operation:
 - a) Operating temperature: $-20^{\circ}\text{C}\sim 45^{\circ}\text{C}$;
 - b) Relative humidity: (20~90)%RH;
 - c) Atmospheric pressure: (86~106)kPa;
 - d) No seriously corrosive gas or no medium affecting the electrical insulation around.
- Be sufficiently familiar with how to start the drive unit before riding on busy streets, otherwise the unexpected start may result in an accident.
- Avoid water immersion during operation.
- Avoid violent impact during operation.
- Prohibit overload for a long time.
- Avoid direct touch of hands or legs with products that have been running for a long time without protection to prevent heat burns.
- Observe the appropriate rules and regulations of the country, state or region in which you use the e-bikes.

6.5 MAINTENANCE

- Maintenance must be carried out by Bafang authorized personnel with the correct equipment.
- Do not disassemble the product.
- It is recommended to regularly check whether the end cap nuts on both sides of the product are loose, whether the connector is loose, whether the shape is deformed or whether the power cord is broken.
- The components are designed to be fully waterproofed to withstand wet weather riding conditions. However, do not deliberately place them into water.
- Power off the ebike system before cleaning the product by pressing the On/Off button of HMI.
- Do not clean the product with a high-pressure washer. If water seeps into the electrical components, operating problems or corrosion may result.
- Use a damp, well wrung out cloth, when cleaning the motor housing and cover.