

6 DEALER MANUAL FOR H700 (RM G3600.250.A2.D)



CONTENT

6.1 Safety Instruction	2	6.3 Installation	6
6.2 Production Description	3	6.3.1 List of Tools to be Used.....	6
6.2.1 Basic Information.....	4	6.3.2 Installation Steps.....	6
6.2.2 Technical Specification.....	5	6.4 Operation	9
6.2.3 Overall Dimension.....	5	6.5 Maintenance	9
6.2.4 Freewheel Recommendation.....	5		

6.1 SAFETY INSTRUCTION



For safety, be sure to read this dealer 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**

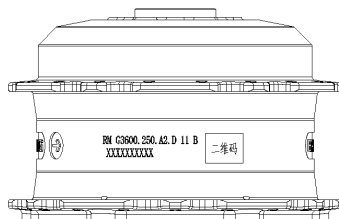
RM G3600.250.A2.D

- **Appearance**



- **Nameplate**

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



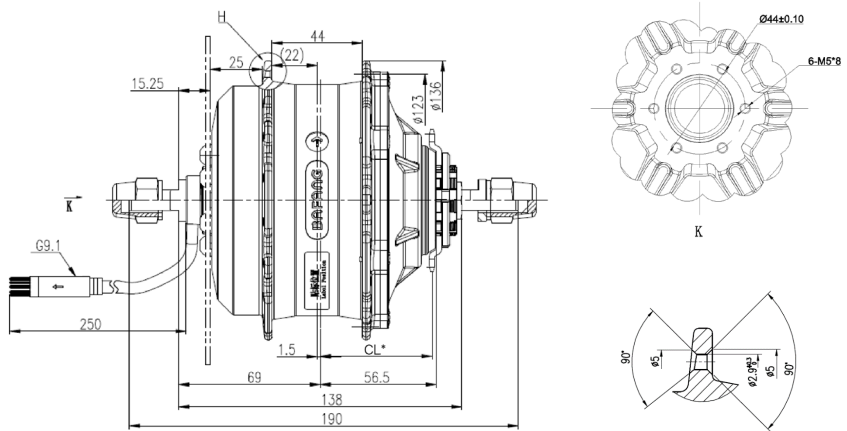
NOTICE

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

6.2.2 Technical Specification

Item	Parameters	
Rated Voltage	36V	43V
Rated Power	250W	250W
Max. Torque	40N.m	40N.m
Gear Ratio	1 st gear 1:1 2 nd gear 1:1.36	1 st gear 1:1 2 nd gear 1:1.36
Operating Temperature	-20~45°C	-20~45°C
Storage Temperature	10~40°C	10~40°C
Protection Rating	IPX6	IPX6
Weight (approx.)	3.2kg	3.2kg

6.2.3 Overall Dimension








6.2.4 Freewheel Recommendation

Chain Drive						
No.	Brand	Product Model	Teeth (T)	Width of Freewheel (mm)	Width of Matched Chain (mm)	CL (mm)
1	BAFANG	RM G01A2.250.D07-A	16	2.65	1/8"	54.5
2		SW A310.01.A 18T 001	18			54.5
3		SW A310.01.A 20T 001	20			54.5
4		RG A310.S.D10-A	18			57.8
5		SW A310.01.A 20T 002	20			57.8

Belt Drive						
No.	Brand	Product Model	Teeth (T)	Width of chainwheel (mm)	Width of Matched Belt (mm)	CL (mm)
1	Gates	CT11**SMN	22 and above	11	/	56
2		CT11**HMN				54.4
3		CT11**SBA				56
4		CT11**SVN				59

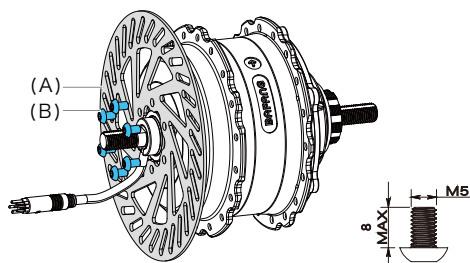
6.3 INSTALLATION

6.3.1 List of Tools to be Used

Diagram	Name	Diagram	Name
	4mm hex wrench		19mm open-end wrench
	Hook wrench		19mm plum wrench
	Chain wrench	/	/

6.3.2 Installation Steps

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



- (A) Disc brake
- (B) M5*8 hex screw

Tool

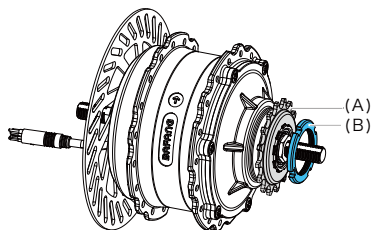


Tightening torque

4N.m

Place the freewheel onto the motor axle from the right side and tighten it with a M34.4 lock nut.

2



(A) Freewheel

(B) M34.4 lock nut

Tool

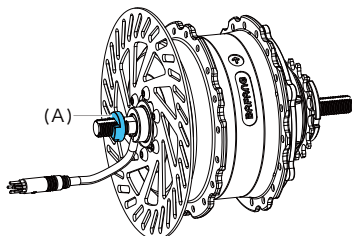


Tightening torque

35N.m

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

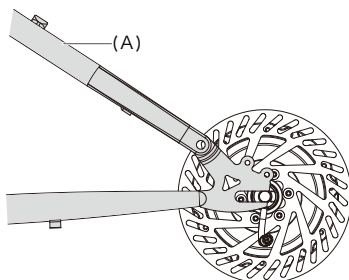
3



(A) Stop pin

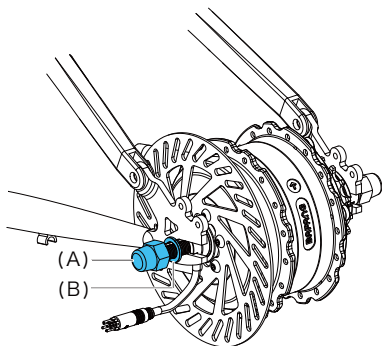
Insert the motor into the rear fork end.

4

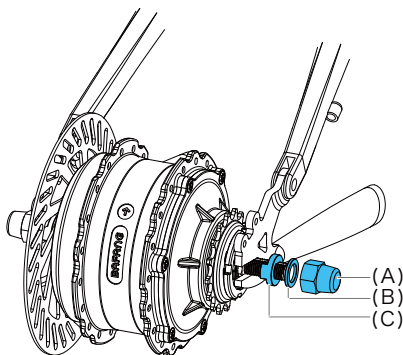


(A) Rear fork

Place the stop pin onto the motor axle from the right side, then place the washers and cap nuts onto the motor axle respectively from both sides.



- (A) Cap nut
- (B) Washer



- (A) Cap nut
- (B) Washer
- (C) Stop pin

Tool



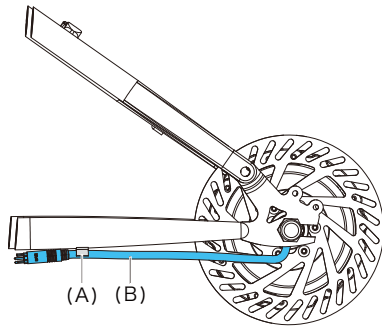
Tightening torque

40-45 N.m

5

Fix the power cord into the cable groove and connect it with the controller.

6



(A) Cable groove
(B) Power cord

TECH TIPS

To avoid short circuit due to water, the motor power cord should be extended forward along the chain stay to ensure the connector faces the ground. The power cord of 5.8mm 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.