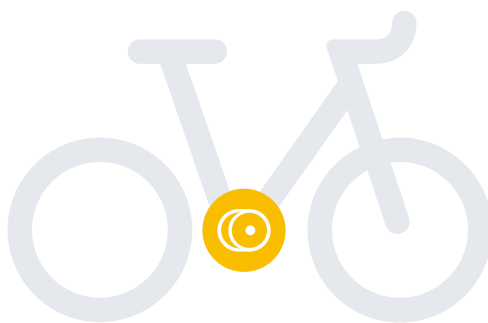


Bafang Drive Unit

>> M630



1. Product Description

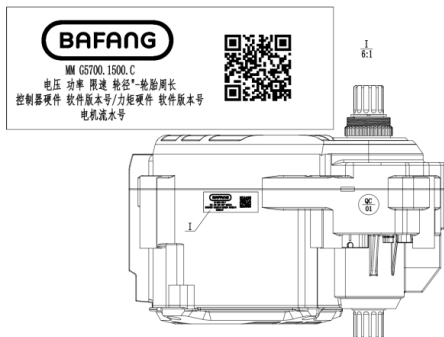
1.1. Basic Information

- Model
M630
- Appearance



- Nameplate

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



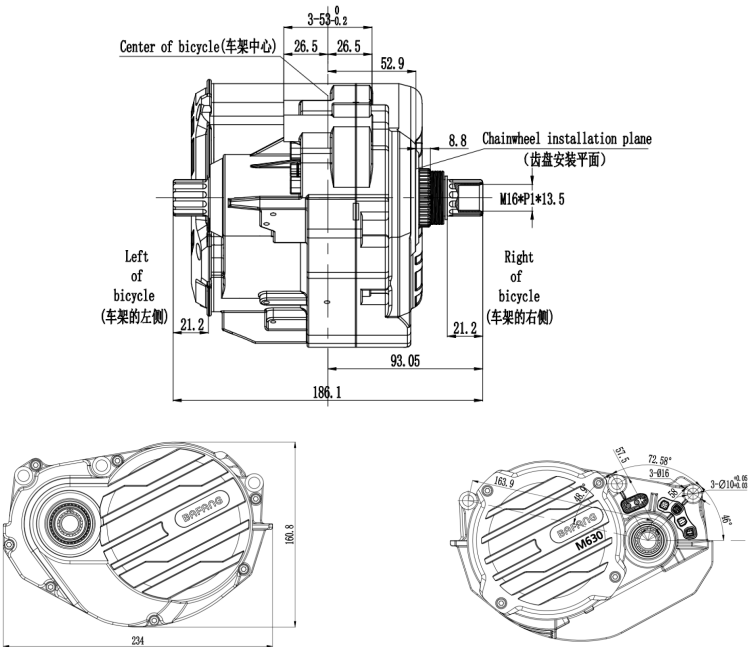
NOTICE:

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

1.2. Technical Specification

Item	Parameters
Rated Voltage	48 V
Rated Power	1500 W
Max. Torque	230 N.m
Operating Temperature	-20~45 °C
Storage Temperature	10~40 °C
Protection Rating	IPX6
Weight (approx.)	6.9 kg

1.3. Overall Dimension



2. Installation

2.1. List of Tools to be Used

Diagram	Name
	5 mm Hexagon wrench
	14 mm Socket wrench
	PH2 Cross-head screwdriver
	T10 Hexalobular
	BBT-18
	Bafang tool

2.2. Installation Steps

2.2.1. Connect the Cables

1. Connect the cables before installing the drive unit.

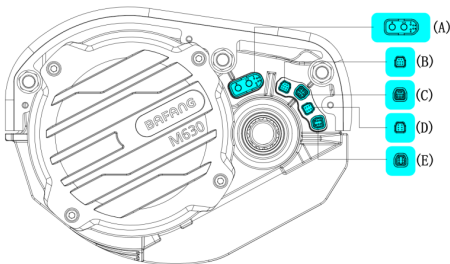
A: Power cable connector

B: 8-pin cable male connector (motor)

C: 8-pin cable female connector (motor)

D: 6-pin cable male connector (motor)

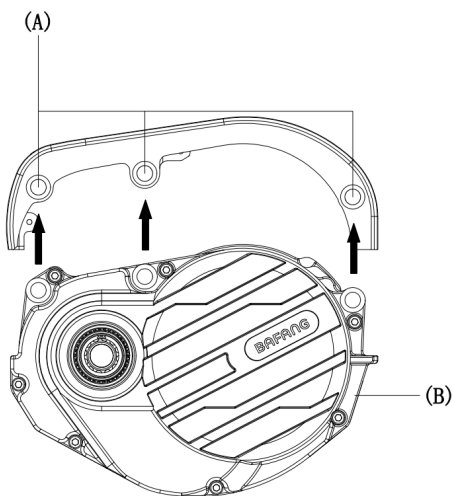
E: 6-pin cable female connector (motor)



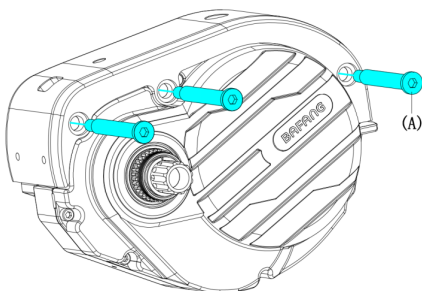
Bafang Tool

2.2.2. Install the Drive Unit

1. Align the 3 mounting holes **(A)** of the drive unit **(B)** with the mounting holes of the frame mount.



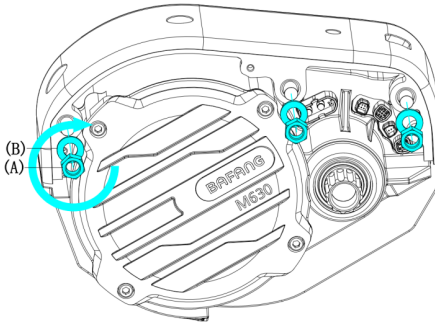
2. Install 3 M8 special bolts **(A)** into the 3 mounting holes from the right side of the frame.



TIP:

If the hexagon wrench fails to make the bolt head surface flush with the frame mount during installation, use a hammer to apply pressure until the bolt is fully engaged.

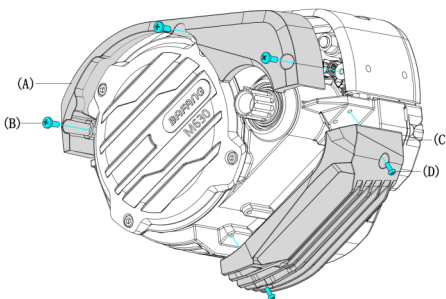
3. Install 3 sets of M8 lock nut (13 * 13) **(A)** and M8 flat washer **(B)** onto the bolts on the left side of the frame, and tighten them.



32-35 N.m

2.2.3. Install the Cover

1. Install the left cover **(A)** onto the drive unit with M4*8 cross-head screws **(B)**, and tighten them.

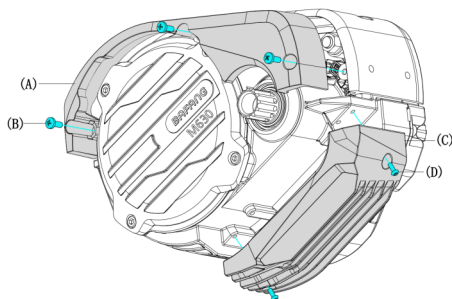




1.5-2 N.m

2.2.4. Install the Bash Guard

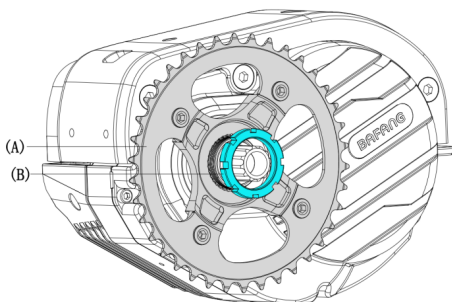
1. Install the bash guard (C) onto the drive unit with M3*8 hexalobular screws (D), and tighten them.



0.9-1.1 N.m

2.2.5. Install the Chainwheel

1. Install the chainwheel assembly (A) and lock ring (B), and tighten it.



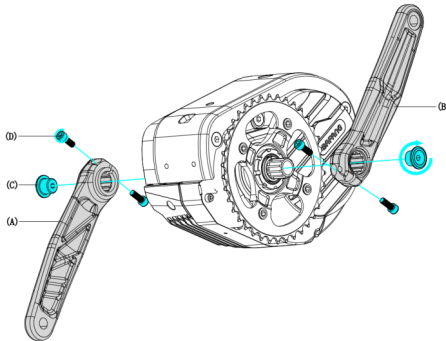
33-37 N.m

2.2.6. Install the Cranks

1. Install the left crank (A) and right crank (B), and tighten the M16 hexagon screws (C) clockwise to secure them.



2. Tighten the crank screws (D) clockwise and alternately.

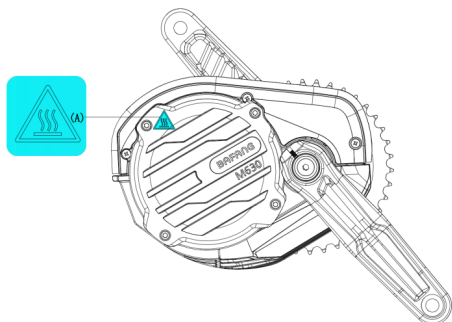


NOTICE:

Make sure that the left and right cranks are parallel when installing.

2.2.7. Attach the Thermal Hazard Label

1. Attach the label.



TIP:

Recommended position: the left side of the drive unit.

3. Operation

- Environmental conditions for operation:
 - Operating temperature: $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$
 - Relative humidity: (20~90)%RH
 - Atmospheric pressure: (86~106)kPa
 - 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.

4. 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.

The BAFANG logo consists of the word "BAFANG" in a bold, white, sans-serif font, centered within an orange rounded rectangle.

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