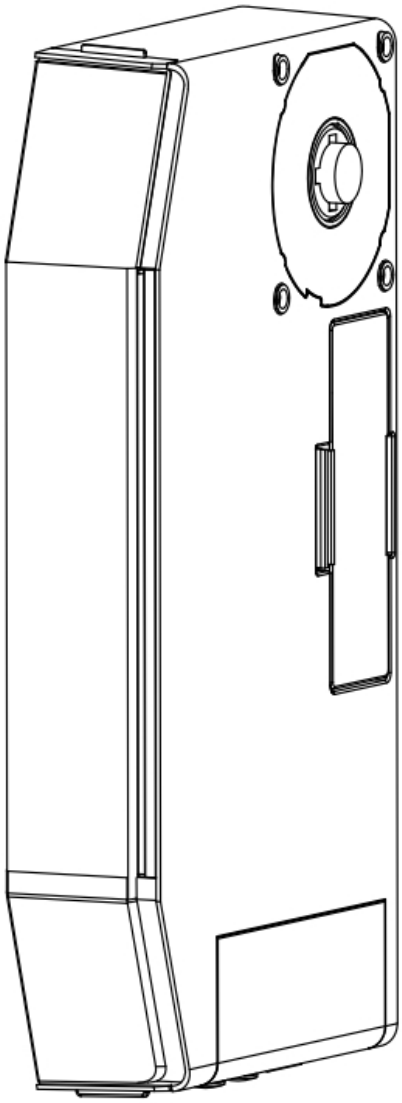
Multi Drive Garage & Commercial Door Opener

Mechanical Installation and User Guide



S/N	

Table Of Contents

General Safety Information 01

Technical Data 02

Product Dimension 03

Installation steps 04

Battery module installation steps 10

Installation of emergency release cord and handle 12

Manual operation for emergency condition 13

Setting and inspection 14

Package contents 15

1.General Safety Information

WARNING

Please read the operating instructions and especially the precautions.

- Installation and settings must be operated by professional persons. Please read the instructions carefully before installation.
- Multi-Drive is STRONGLY recommended and suggested to be installed on well-balanced condition sectional doors.
- Installation and electrical connection must STRICTLY follow local building and electrical regulations.
- Ensure the door opens and closes well without stuck point. A mechanical limit device must be installed at the end of door track to prevent door from sliding out.
- Before repairing or moving the door machine, please cut off the power supply and make sure the door is locked with shaft to avoid any danger of falling down.
- Strictly forbidden for pedestrians and vehicles to pass or stay under a running door.
- Strictly forbidden to pull the manual release cord on the Multi-Drive when is running.
- Quick release only can be used under the condition that the door is fully closed. Strictly prohibited to operate the quick release in other states.
- Regularly inspections on relevant safety protection devices and door operating conditions to ensure the safe and reliable operation.

2.Technical Data

Model	1000N / 18N.m	1500N / 25N.m	1800N / 35N.m
Max. Output Torque	25Nm	30Nm	35Nm
Rated Output Torque	21Nm	26Nm	31Nm
Output speed	24~40rpm		
Output shaft/hollow shaft	ϕ25.4 mm		
Input Voltage	110-127V or 220-240V		
Motor power	280W	330W	380W
Control system	30V DC		
Duty rating	Door area ⩽ $10m^2$ 60 cycles/H (Max) Door area ＞ $10m^2$ 20 cycles/H		
Limit switch range (maximum revolutions of output shaft /hollow shaft)	15 turns		
Temperature range	-20° C ～ +60° C		
Installation	Side installation, Mid-shaft installation, Rail installation		

Recommendation: door size

Side installation

Model	Standard sectional doors with cylindrical cable drum	High lift sectional doors with cylindrical-conical cable drum	Vertical lift sectional doors with conical cable drum
1000N / 18N.m	$12m^2$	$12m^2$	$10m^2$
1500N / 25N.m	$15m^2$	$15m^2$	$13m^2$
1800N / 35N.m	$18m^2$	$18m^2$	$16m^2$

Mid-shaft installation

Model	Standard sectional doors with cylindrical cable drum	High lift sectional doors with cylindrical-conical cable drum	Vertical lift sectional doors with conical cable drum
1000N / 18N.m	$10m^2$	$10m^2$	$8m^2$
1500N / 25N.m	$12m^2$	$12m^2$	$10m^2$
1800N / 35N.m	$14m^2$	$14m^2$	$12m^2$

Rail installation

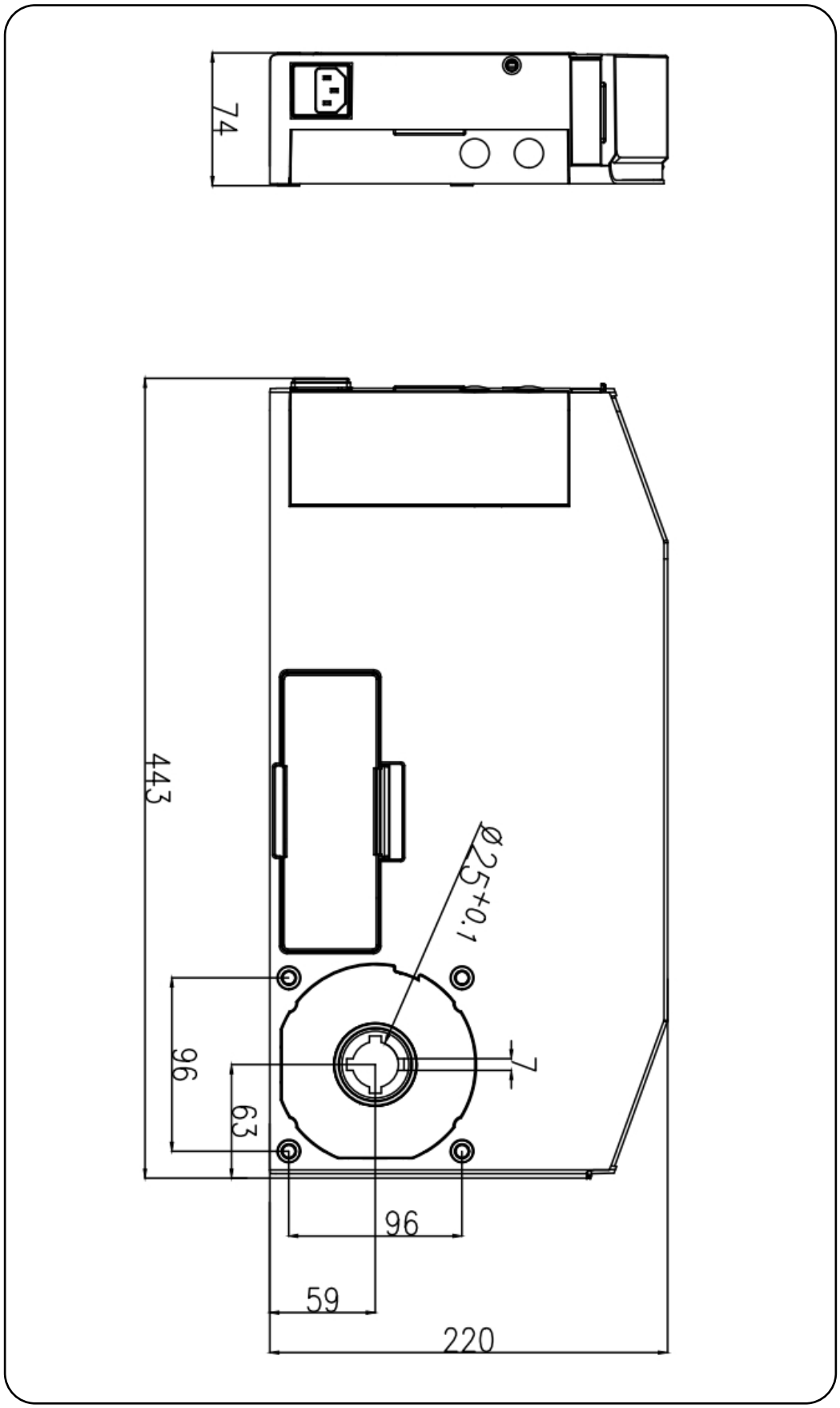
Model	1000N / 18N.m	1500N / 25N.m	1800N / 35N.m
	$12m^2$	$14m^2$	$16m^2$

Remark：The above door area recommendation only based on the insulated door panel with 40mm thickness, and the door weight ⩽ **11KG** per sq.m.

Remark: The above door area recommendation only based on a well spring balanced garage / commercial doors.

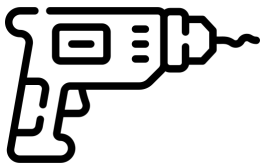
3.Product Dimension

Unit of Length: mm

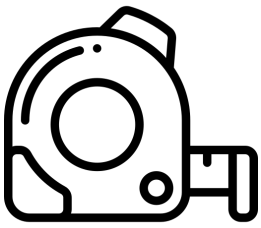


4.Installation steps

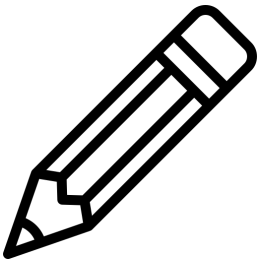
4.1 Tools required for installation:



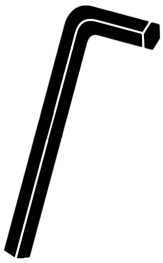
Pistol drill



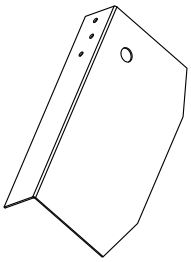
Tape measure



Marker pen

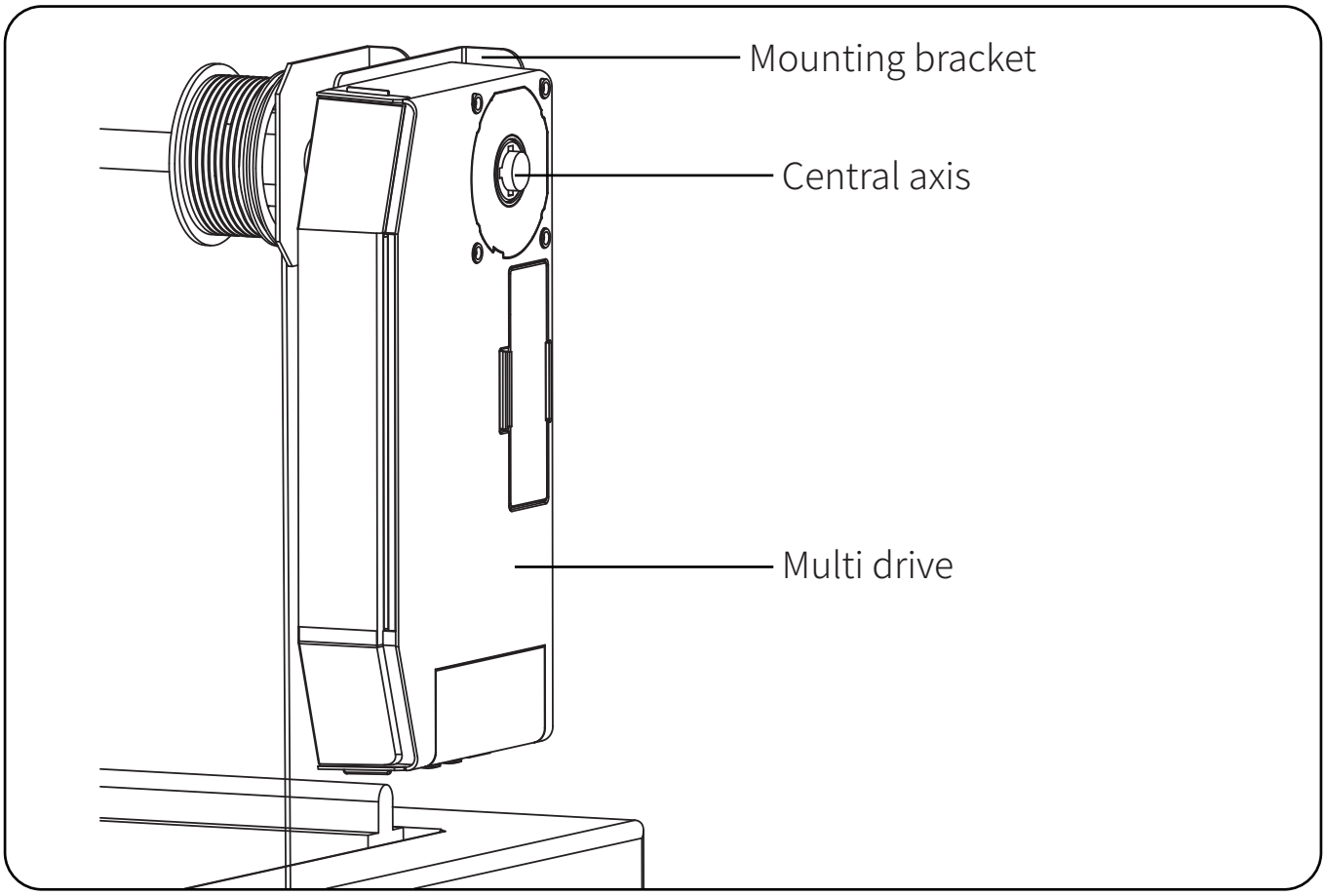


Hexagonal wrench



Contoured partition

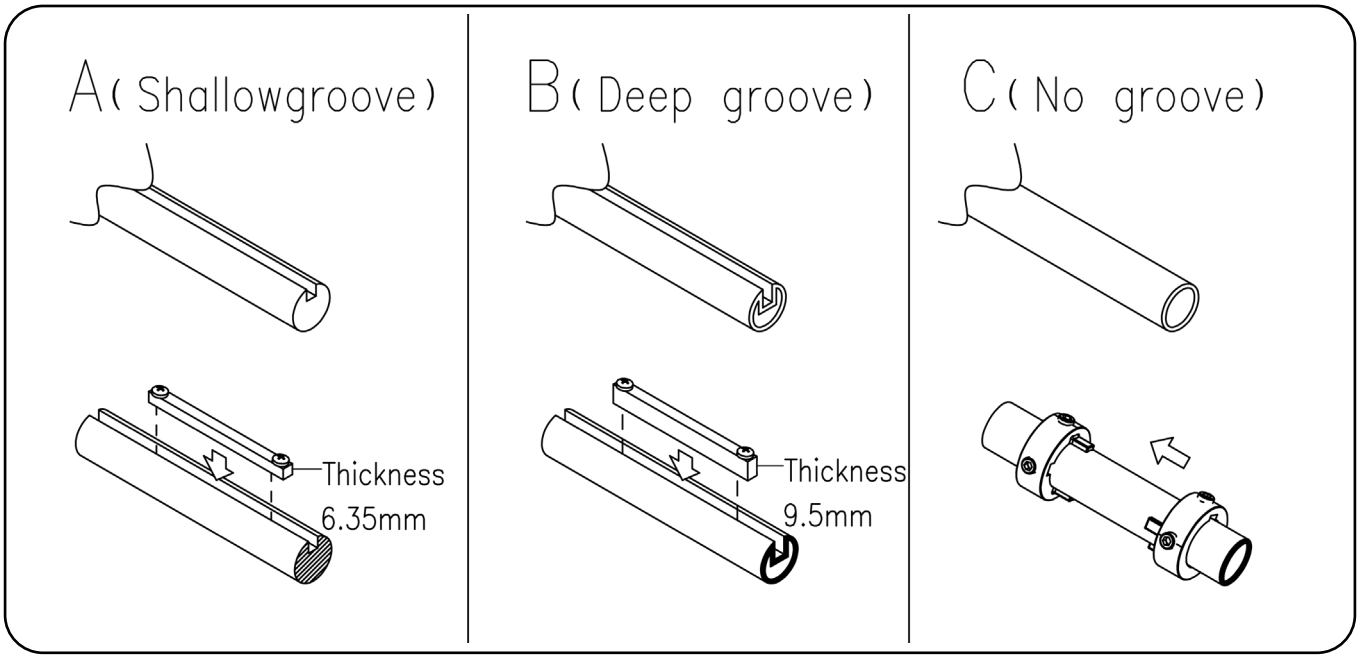
4.2 Recommended installation method (Example with right-side installation)



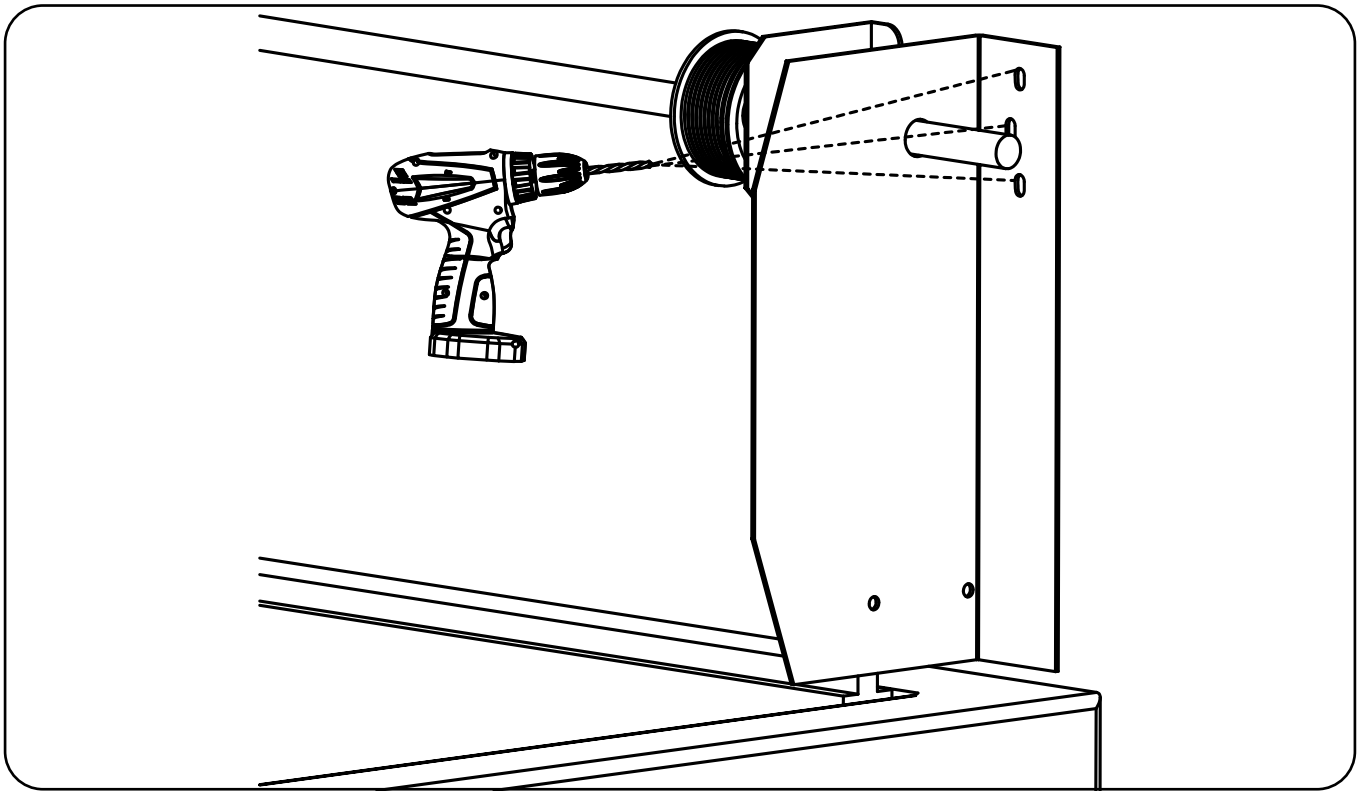
4.2 Installation methods for 3 types central axis

Please check the actual conditions and choose the best installation type .

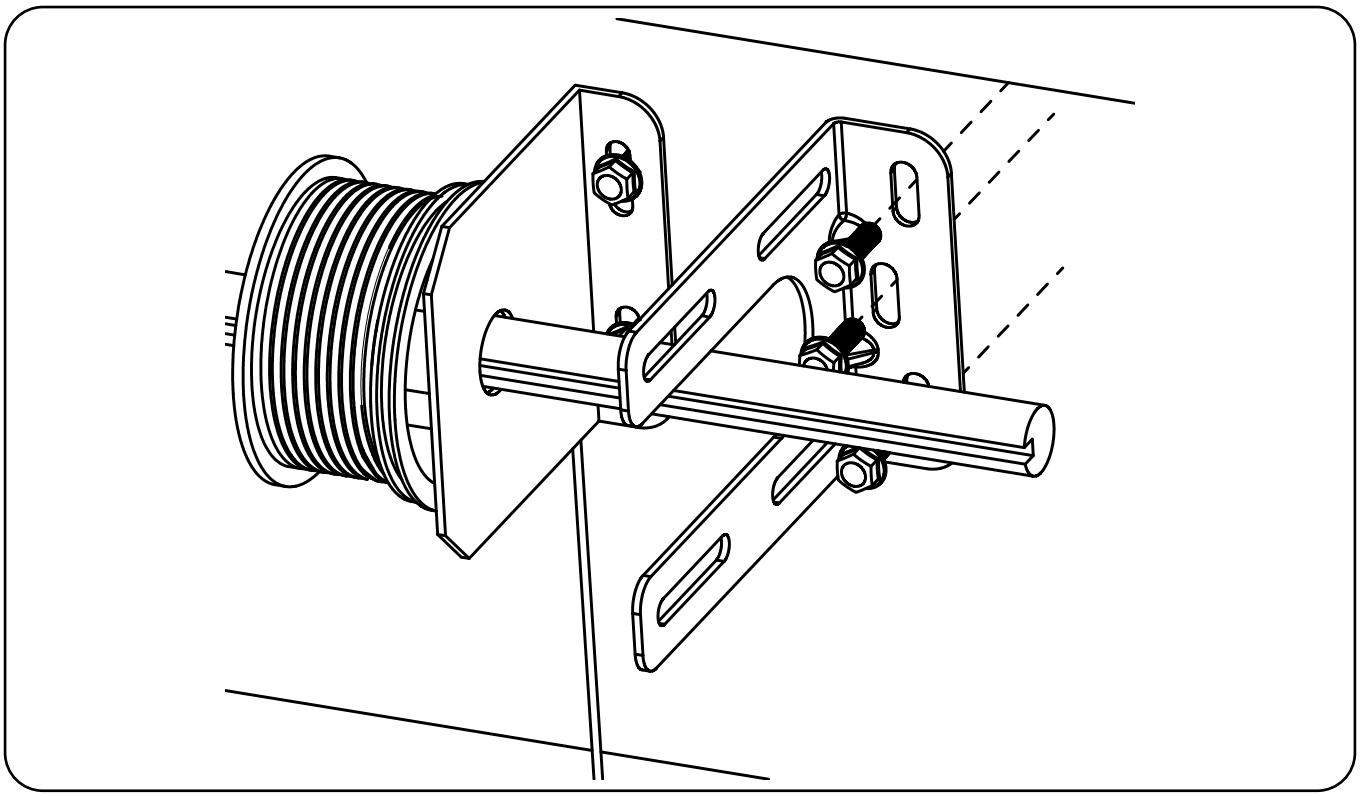
Installation of door central axis types A, B and C.



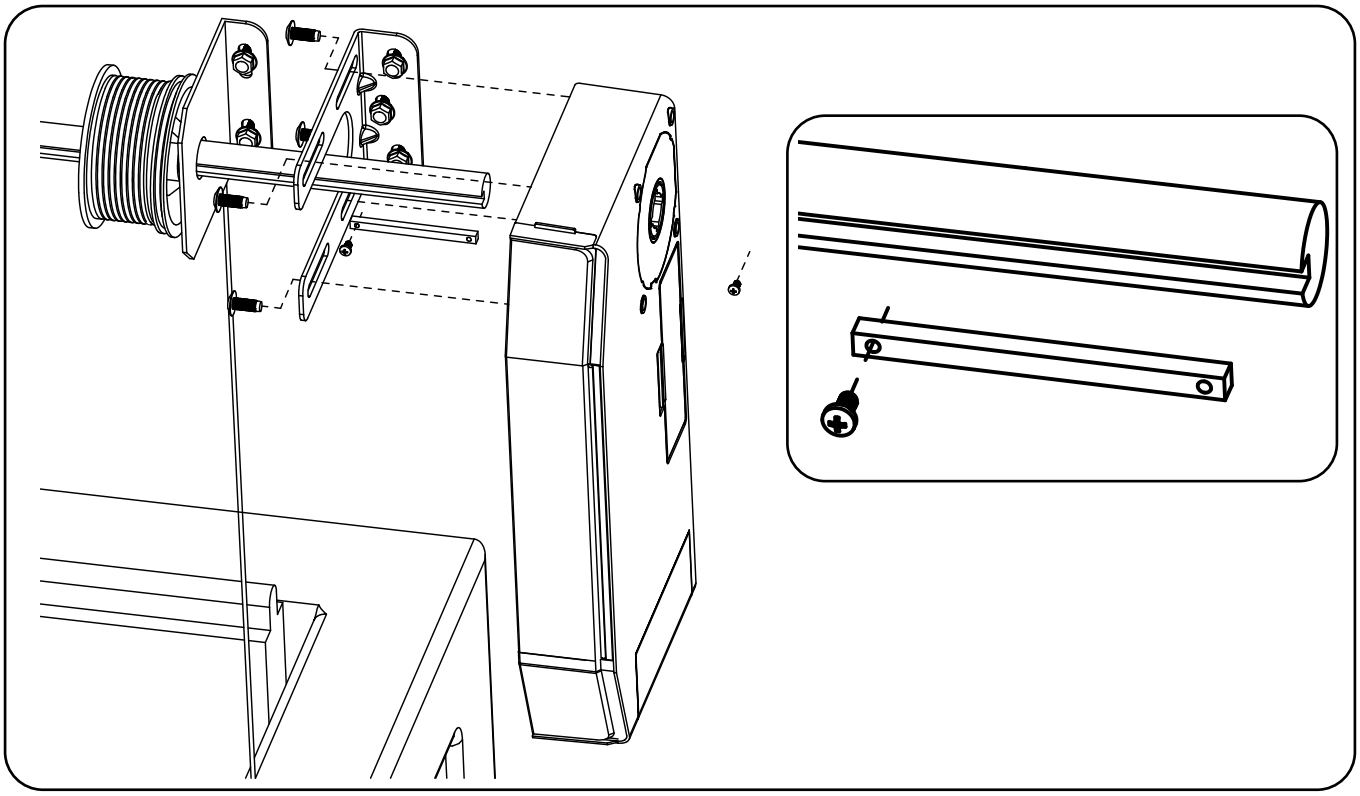
4.3 Steps for installing with door central axis types A and B (same method) are as follows:



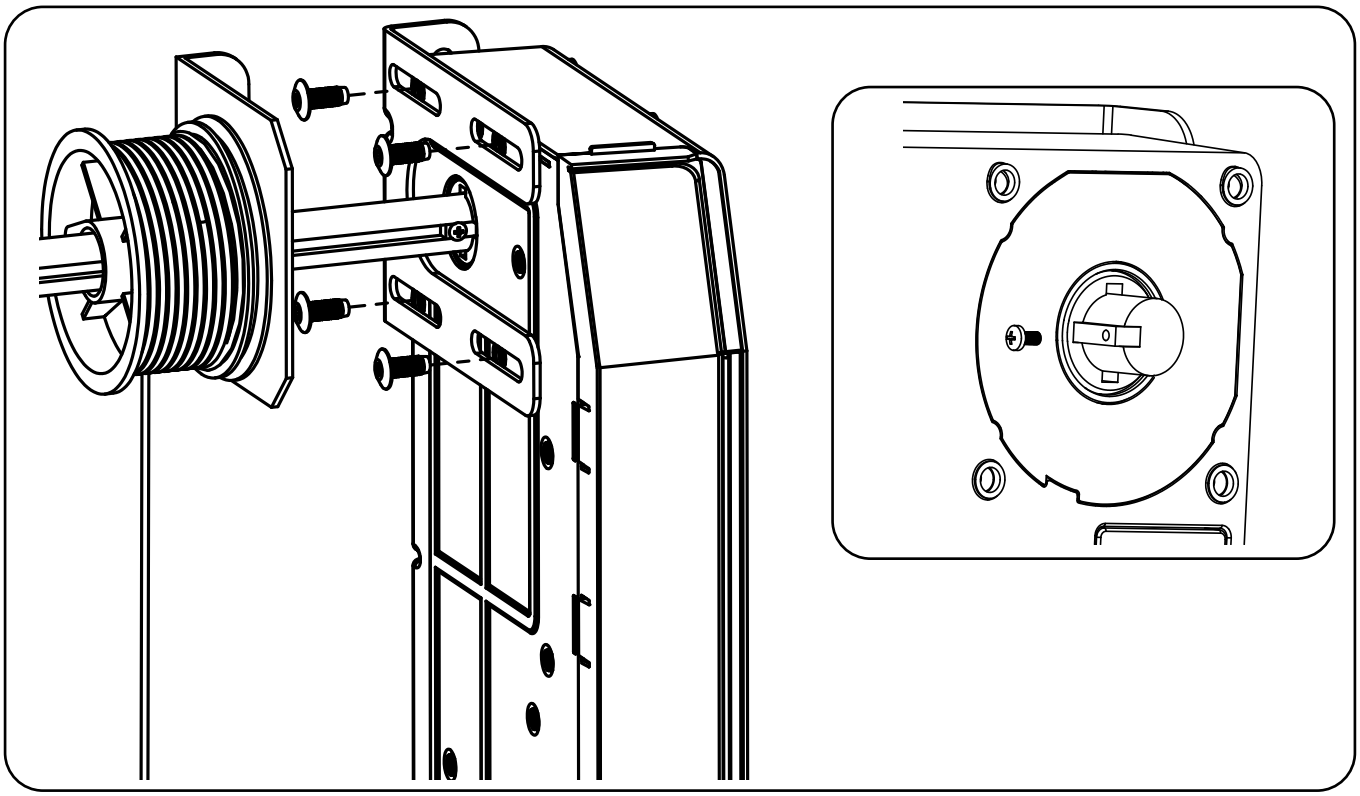
Step 1: Fix contoured partition.



Step 2: Fix mounting bracket (180° reverse is supported).

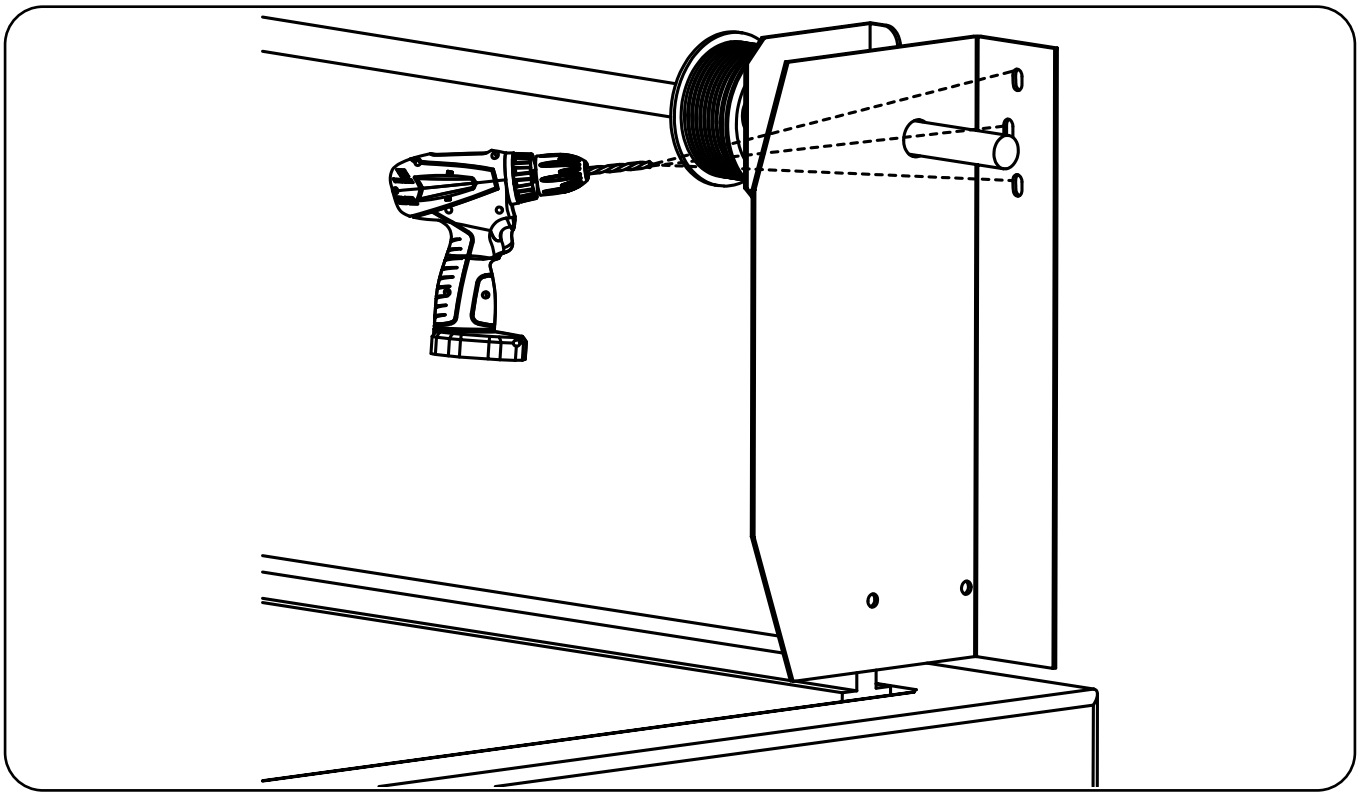


Step 3: Install the motor and rotate the central shaft to install keyway pin.

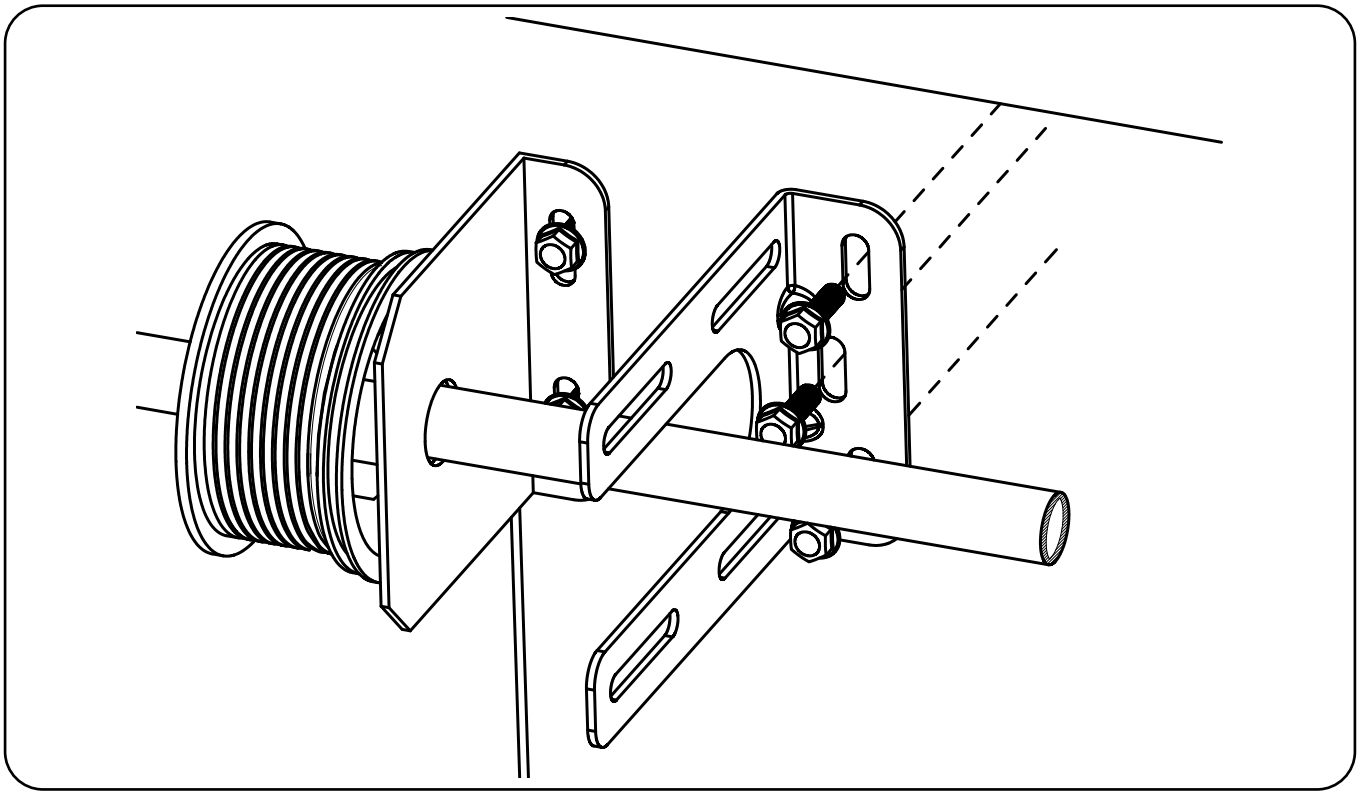


Step 4: Fix the bracket and motor with M8*16mm bolts, and fix the keyway pin with M4*8mm screws.

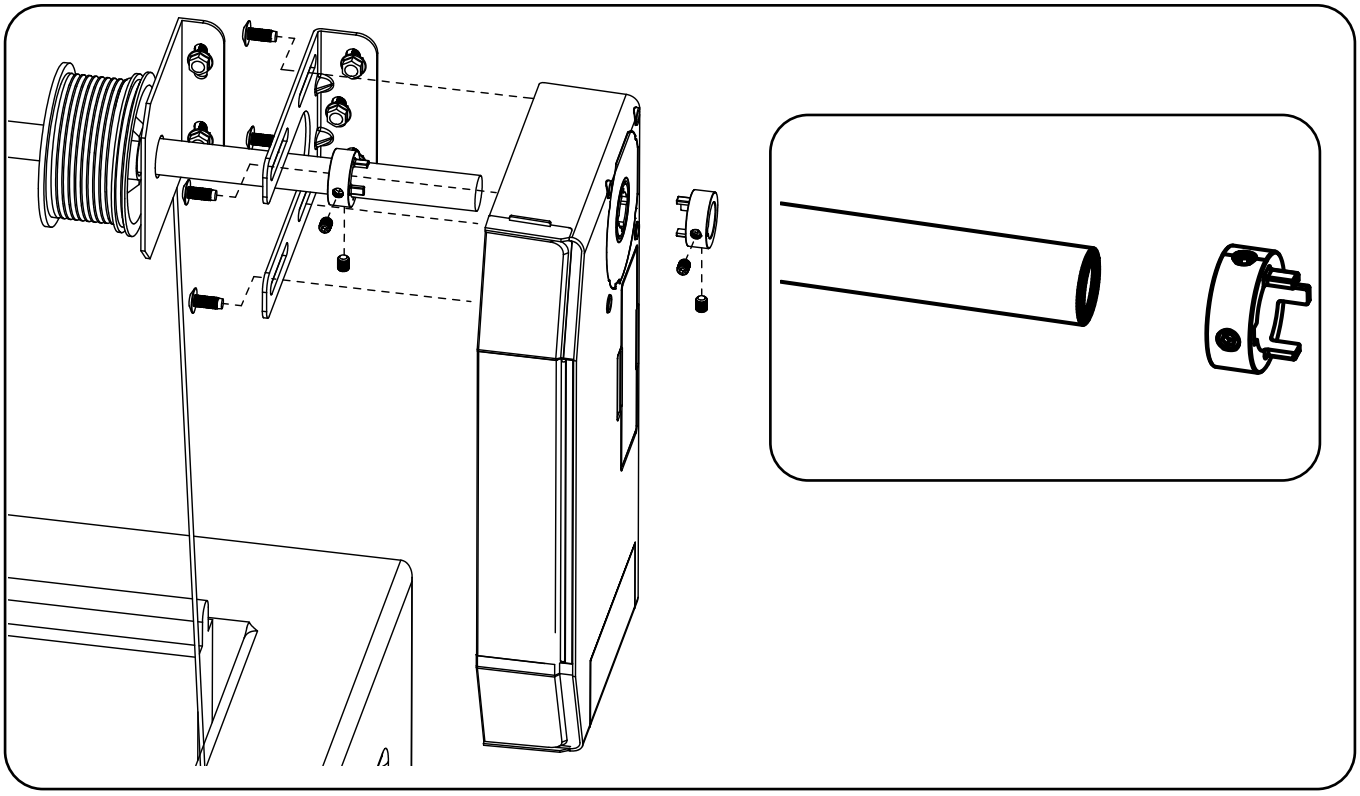
4.3 Steps for installing with door central axis types A and B (same method) are as follows:



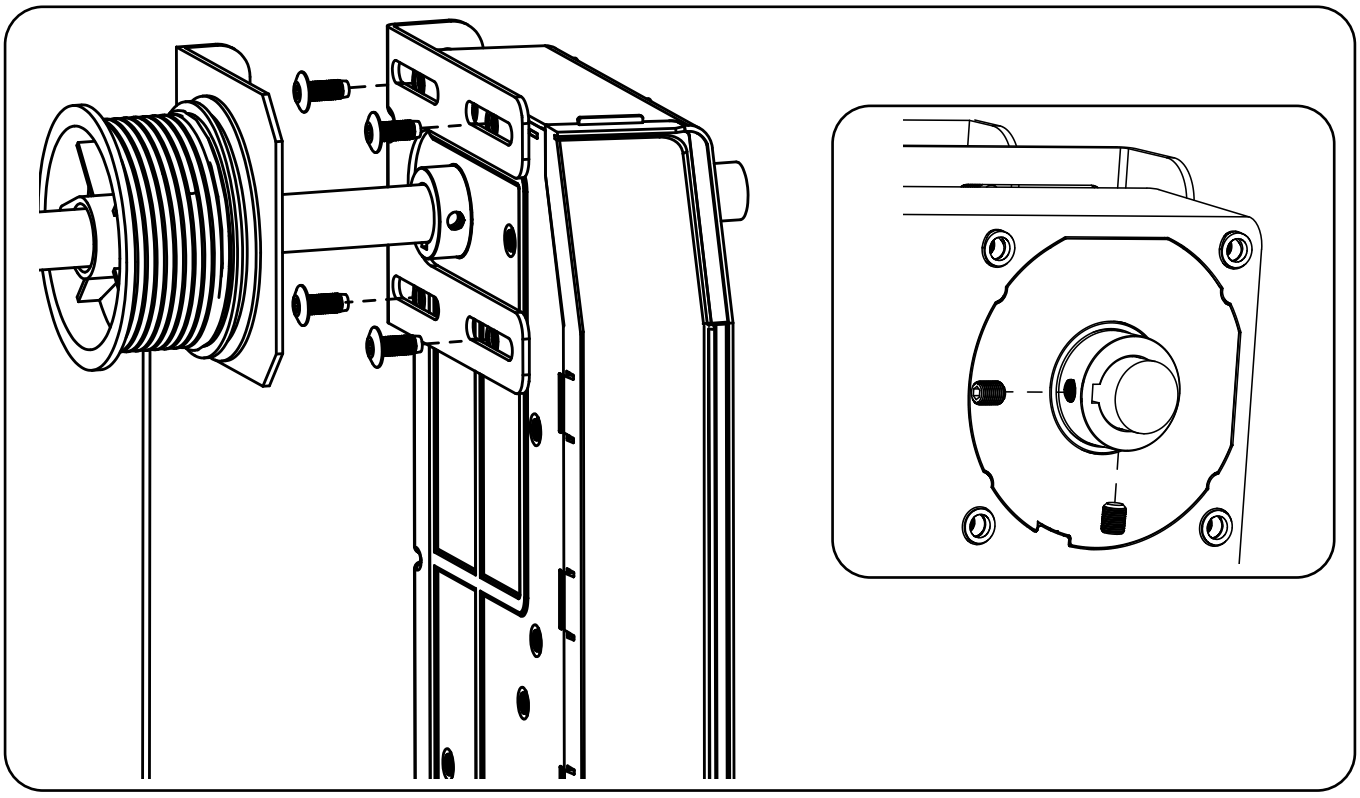
Step 1: Fix contoured partition.



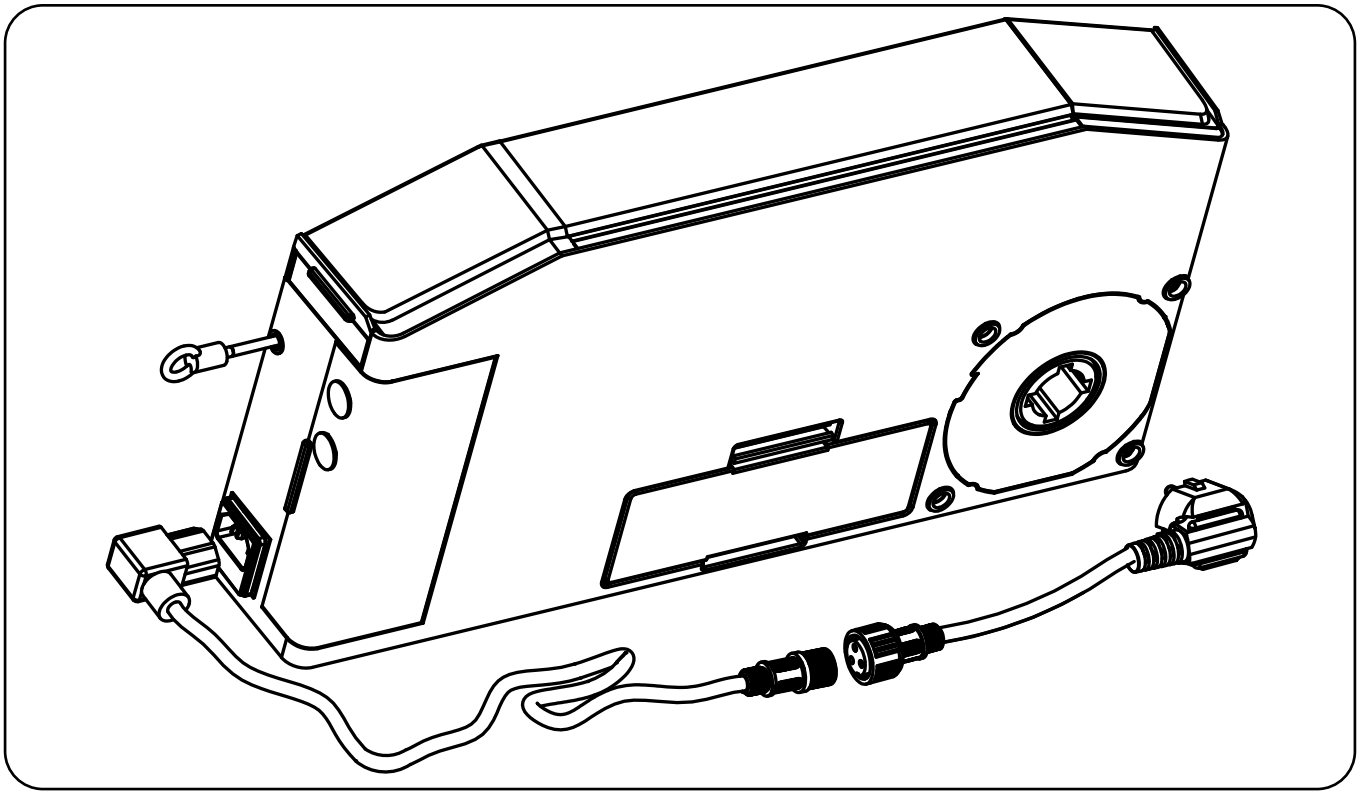
Step 2: Fix mounting bracket (180° reverse is supported).



Step 3: Insert the first positioning ring then install the Multi-Drive. Use M8*10mm set screws to lock the positioning ring.



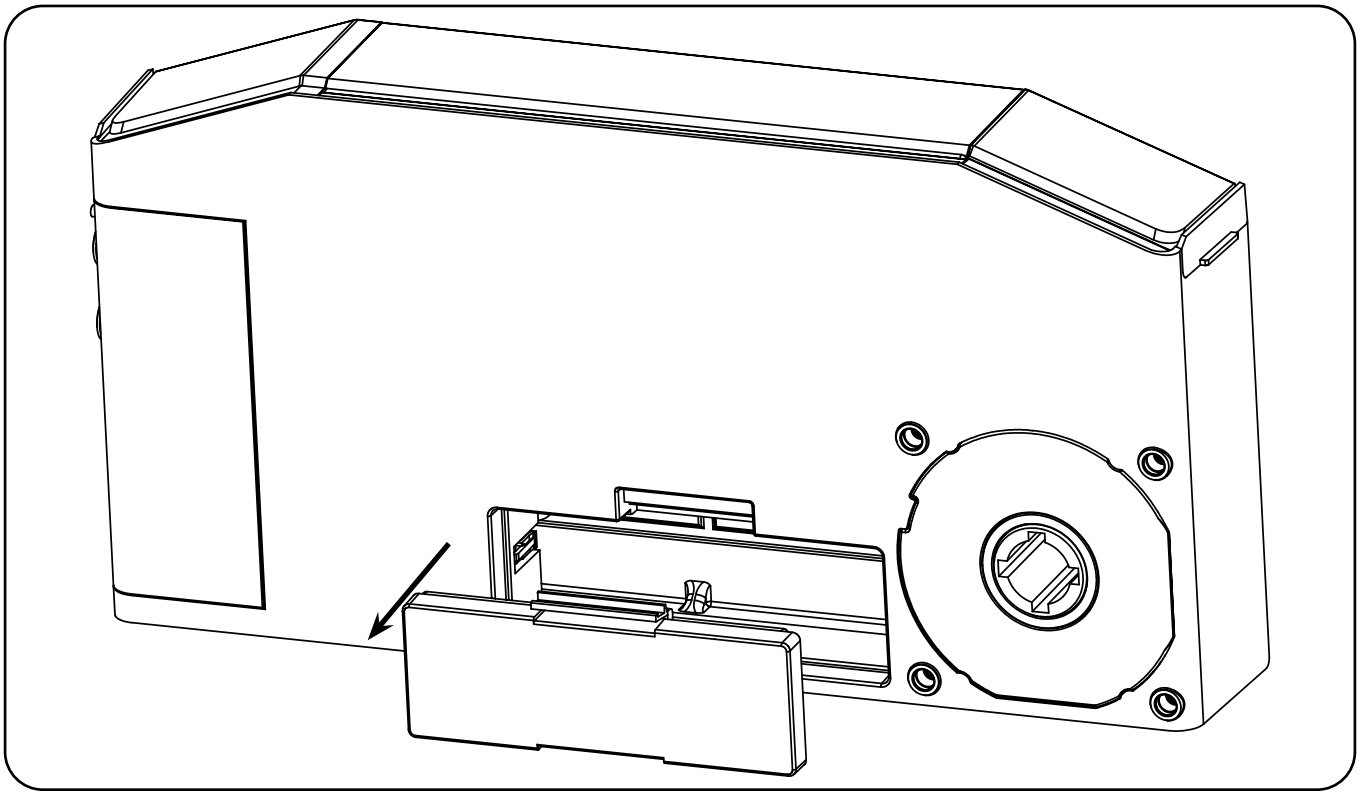
Step 4: Use M8*16mm bolts to fix the bracket and the motor. Insert the second positioning ring and lock the M8*10mm set screws.



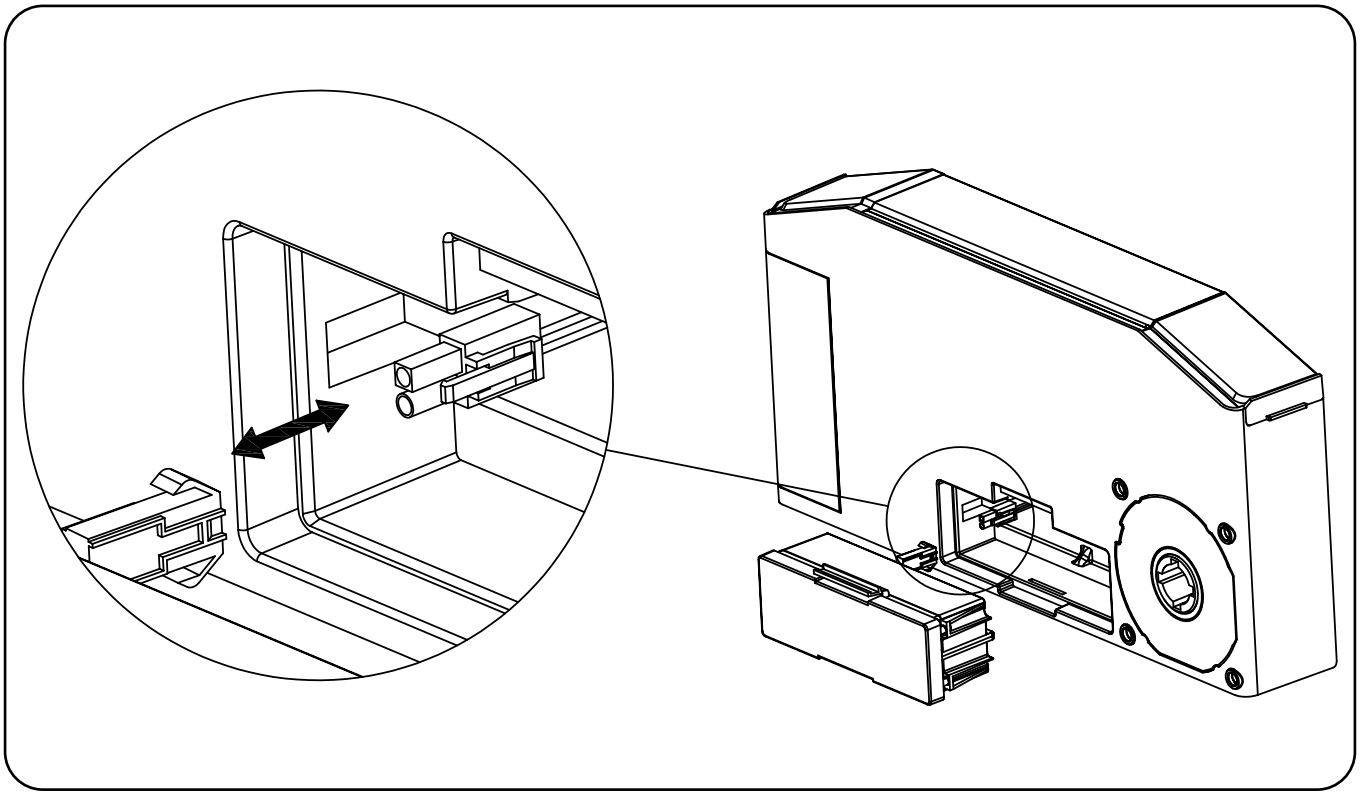
Please check the actual conditions and choose the best installation type .
Installation of door central axis types A, B and C.

5.Battery module installation steps

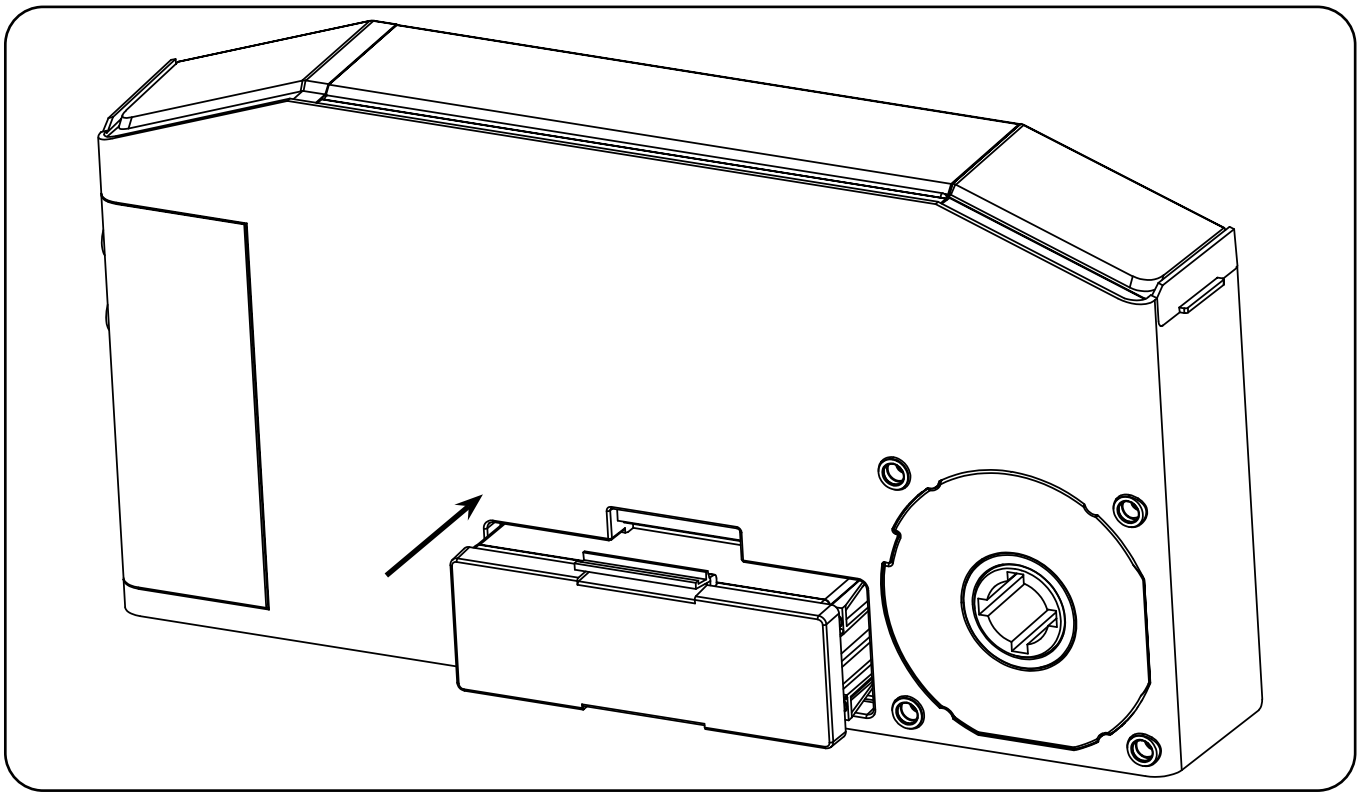
- Battery module optional accessories



Step 1: Open the battery cover.



Step 2: Connect the battery and put it into the card slot.



Step 3: Insert the battery module and the installation is complete.

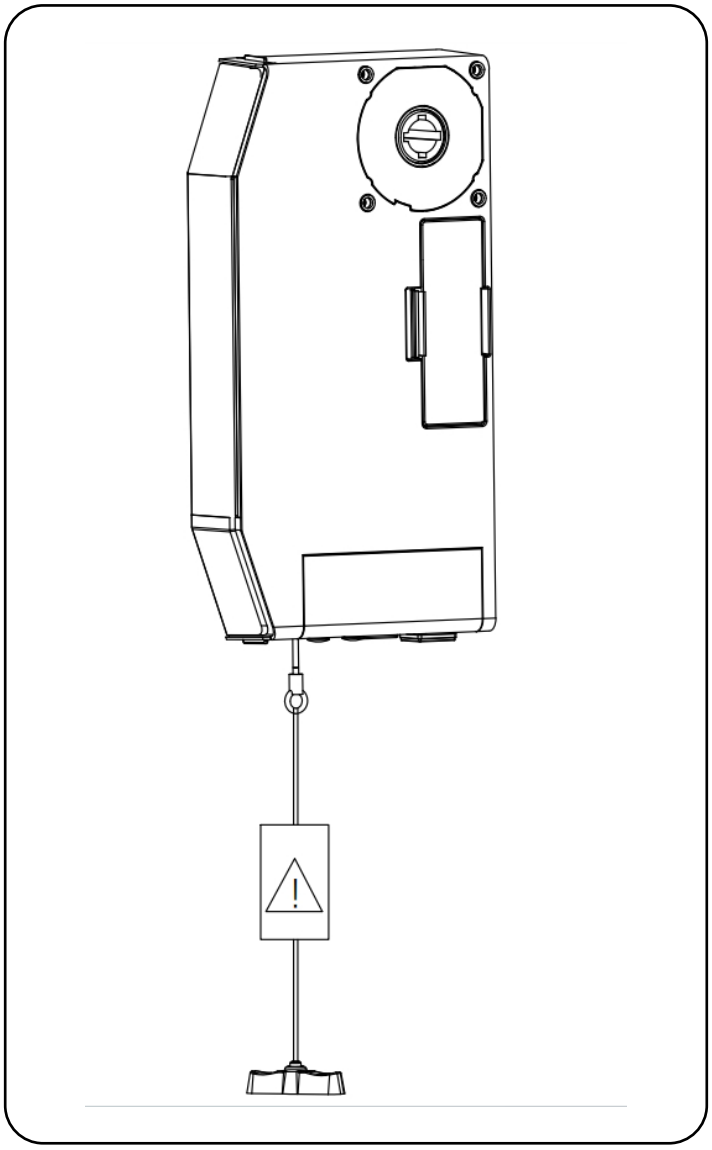
6.Installation of emergency release cord and handle

If possible, use emergency release handle to disengage door ONLY when garage door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.

NEVER use emergency release handle unless garage doorway is clear of persons and obstructions.

- Insert one end of the emergency release cord through the handle. Secure with an overhand knot at least 2.5 cm from the end of the rope to prevent slipping.

- Insert the other end of the emergency release rope through the hole in the trolley release arm. Mount the emergency release within reach, but at least 1.83 m above floor, avoiding contact with vehicles to prevent accidental release.



7.Manual operation for emergency condition

If possible, use emergency release handle to disengage door ONLY when garage door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.

NEVER use emergency release handle unless garage doorway is clear of persons and obstructions.

- Make sure the door is closed.
- Pull the emergency release handle. The door should then be able to be opened manually.
- Return the door to the closed position.
- Pull the emergency handle a second time.
- Reconnect the door to the door opener.

8.Setting and inspection

- Installation: Make sure all mounting screws, bolts and fasteners are tightened and there are no loose parts.
- Electrical wiring: Confirm that the power cord is connected correctly and there are no exposed wires to ensure electrical safety.
- Control debugging: Use the remote control or control box to operate and ensure that the door machine can be opened and closed normally.
- Emergency release: Ensure that the door can be separated from the machine by pulling down the release rope when manual operation is required.
- Automatic function test: If the door machine has automatic functions, such as automatic door closing, check whether these functions work as expected.
- Final inspection: Perform a complete door opening and closing cycle to observe whether the door machine operates smoothly without abnormal vibration or noise.

9.Package contents

No.	Parts Name	Qty	Remark
1	Multi-Drive motor	1 pc	
2	Wireless E-Lock	1 pc	
3	Mounting bracket	1 pc	
4	Plum flange bolt with flat head	4 pc	M8*16mm
5	Spindle keyway pin (thick)	1 pc	6.35*9.5*92mm
6	Spindle keyway pin (thin)	1 pc	6.35*6.35*92mm
7	Cross recessed with round nose & flat tail	4 pc	M4*8mm
8	Positioning ring	2 pc	Contains M8*10mm hexagon socket flat end set screw
9	Raised column	1 pc	10*16*10mm
10	Power cable	1 pc	European standard with quick-connect connector V1.0,length 0.15m
11	Power adapter	1 pc	One end left-bend, the other end quick-connect connector V1.0, length 1.3m
12	Quick release cord kit	1 pc	
13	Remote control	2 pc	
14	Contoured partition	1 pc	
15	Instruction book	1 pc	