

# Manual Instruction of 16039-B

## Specifications

### Receiver

Input Voltage: AC110V-250V 50HZ/60HZ

Motor Voltage: AC110V-250V 50HZ/60HZ

Protective Tube: 250V 10A

Output Power: 1000W

Temperature: -20°C-65°C

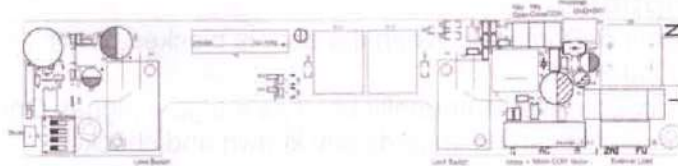
### Remote

Working Voltage: Black Type(with 4 keys): 12V ( 23A battery\*1 )

Working Current:  $\leq 15\text{mA}$  Working Frequency: 433MHz

Temperature: -20°C-65°C

Remote Distance:  $\leq 50\text{m}$  Remote storage capacity: 50 PCS. If more than 50 pcs, the first study remotes will be deleted.



Key function description:

STUDY-Remote control learning key :

- 1、Increase the remote control
- 2、Delete all the remote control keys

Dial switch instruction

- |                             | OFF               | ON              |
|-----------------------------|-------------------|-----------------|
| 1、Impulse                   | Open              | Deadman open    |
| 2、Impulse                   | Close             | Deadman close   |
| 3、Motor direction control   | Open、close        | Close、open      |
| 4、One-key/multi-key control | Multi-key control | One-key control |

## Add/delete remote

- 1、Add remote: Push "study" key and loose it until you hear a sound, now it is study mode. Push one key on new remote three times continuously, when you hear a sound, then study successfully. If fail, please follow these steps and study again. You need to finish the study within 8s, if more than 8s, the study mode will be off automatically (you will hear the sound twice)  
(Note: For four keys remote, push key 2 and key 3 together, it will be distance studying guidance mode. If this four keys remote has studied successfully, you can enter/exit the distance studying mode by push this key).
- 2、Delete remote: Keep pushing "study" key, don't loose it when you hear a sound, and loose it until you hear the sound sounds for a while, it means delete all remotes.
- 3、Remote storage capacity: 50pcs. If more than 50pcs, the first study remotes will be deleted.

## One key/multi-key control

- 1、 For one key control, only the first studied key can control. If change to another key, you need to study again , push "study" key.
- 2、 One key control is same as line control, open、 stop、 close、 stop.
- 3、 For inching/linkage control, pushing the key is open/close, loose it is stop.

## Remote instruction

Key 1: Open

Key 2: Close

Key 3: Stop

Key 4: Lock

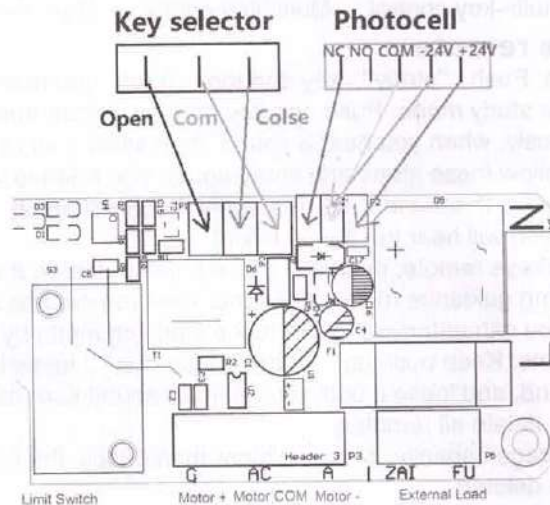
Push key 2 and key 3 together: Enter/exit distance study mode.

Note: For one key mode, distance study can not be entered. If it has been studied before, then it can still work.

## Security description:

- 1、 It has the function of Photocell. When the door is blocked, it will automatically rebound 3S.
- 2、 The normally closed signal is normally used as a trigger signal. Once the line is disconnected, it can be immediately known and checked.
- 3、 The boxed button can be used as an emergency stop button and can be stopped at work.
- 4、 The use of potting transformer is safer than ordinary transformer.
- 5、 Boxed fuse protection line
- 6、 Acousto-optic reminding
- 7、 In remote control learning, the same button should be pressed 3 times in a short time to prevent crosstalk.

## Key selector and Photocell wiring diagram:



# Central gearmotors for rolling shutters

Instructions and warnings for fitters  
Warning: follow these personal safety instructions very carefully.  
Save this manual for future reference.

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

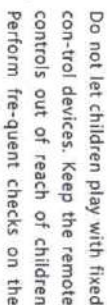




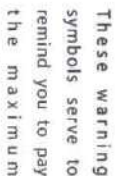
## technical characteristics

### Declaration of incorporation

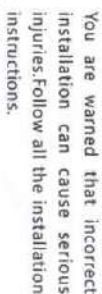
IMPORTANT SAFETY INSTRUCTIONS ATTENTION - FOR REASONS OF PERSONAL SAFETY IT IS IMPORTANT TO OBSERVE THESE INSTRUCTIONS RETAIN THESE INSTRUCTIONS



o not use command buttons that can simultaneously operate the equipment in both directions. Do not command more than one gearmotor with each button. Conduct frequent



at least 3 mm between the contacts is

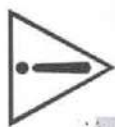


## TECHNICAL DATA

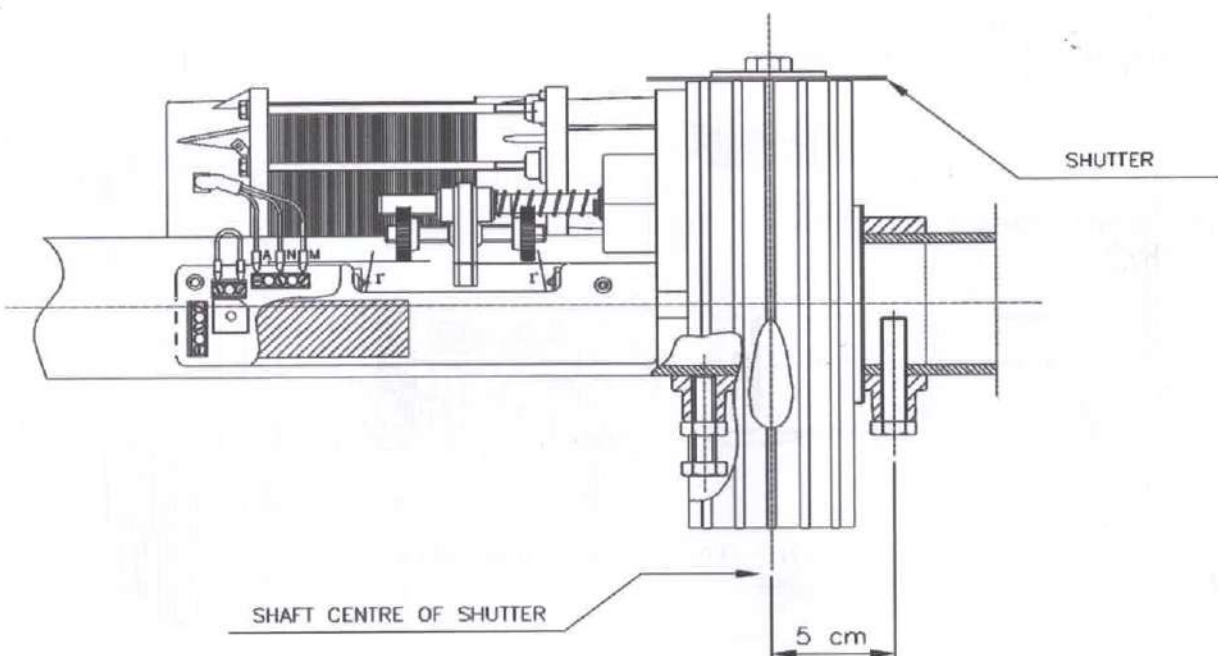
- 1) Die-cast aluminum body and rim
- 2) Steel gears, roller bearings
- 3) Rim mounted on bearing
- 4) Drive shaft mounted on double ball bearings
- 5) Asynchronous 4 pole motor 1,400 rpm
- 6) Class B isolation
- 7) Thermal protection on motor: 160°C.
- 8) Easy limit-switch adjustment
- 9) 6 m. maximum shifter height
- 10) Alimentation electric cable: 4x1 mm<sup>2</sup> for BOLT C and BOLT F, 4x1.5 mm<sup>2</sup> for BOLT CDM and BOLT FDM.
- 11) Operating temperature: -20°C. +85°C.
- 12) Fittings for electrobrake mounting P-P8M-P115

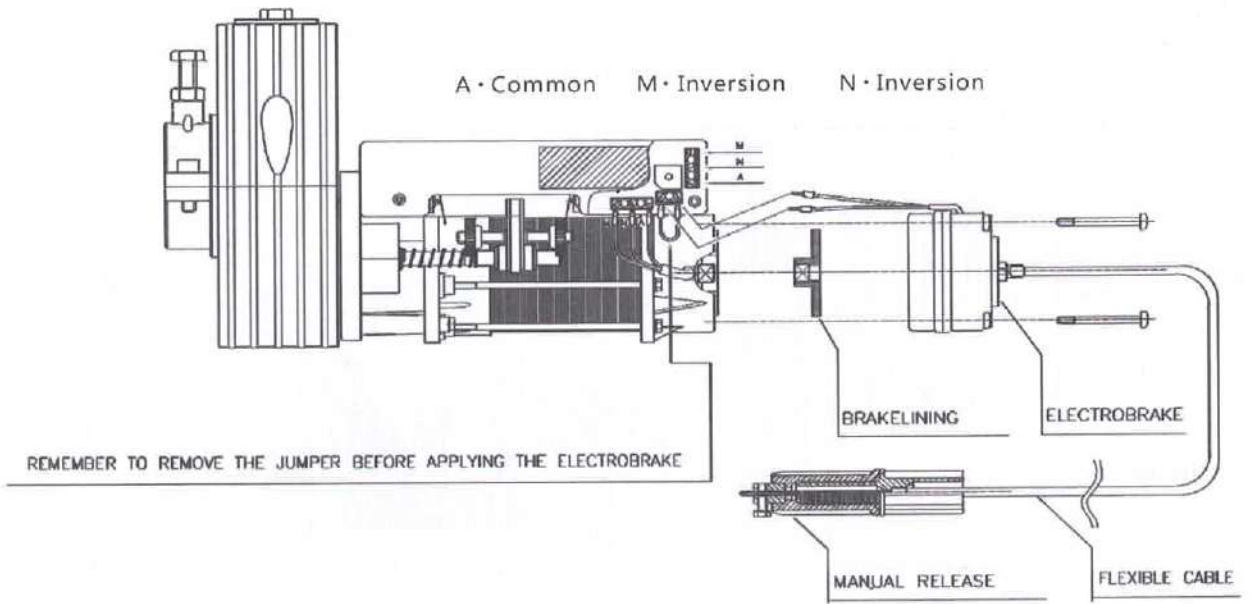


## INSTALLATION INSTRUCTIONS

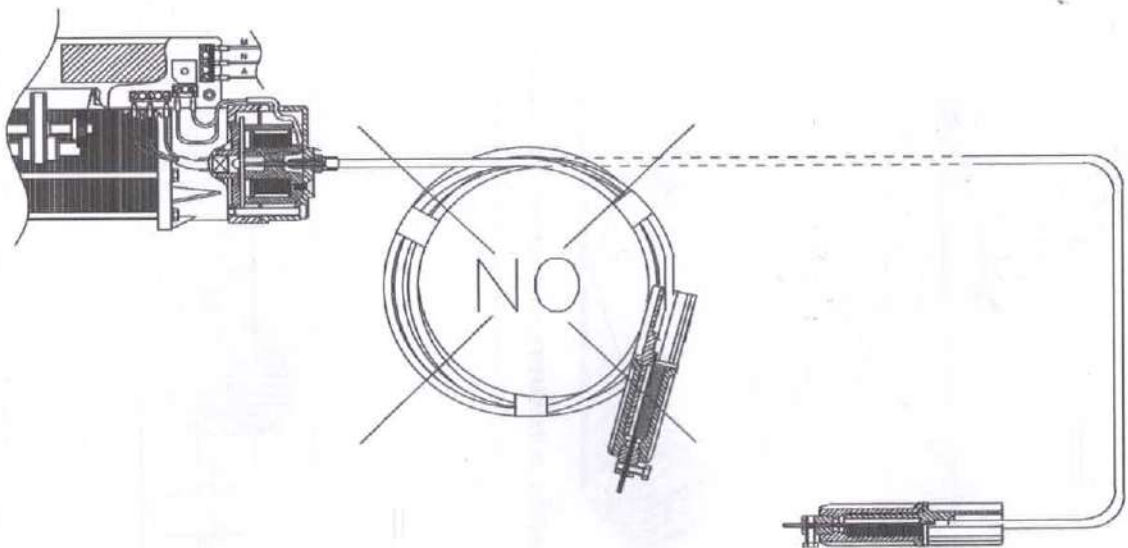


- 1) Drill a 10 mm diameter hole 5 cm from the same location as the M10 threaded hole on centre of the shutter's shaft (see fig. 1);
- 2) Remove the M 10 t.e. screws from the gear of the gearmotor;
- 3) Remove the two semi-gears by unscrewing the two M 8 screws (using a 6 mm hexagonal wrench);
- 4) Carefully remove, avoiding any folding, the black plastic roller carrier band;
- 5) Separate the two elements of the gearmotor (upper and lower body) acting on the four M 8 screws (using a 6 mm hexagonal wrench);
- 6) Should the shutter shaft be less than 60 mm long, use the dedicated reducing sockets positioning them using the previously drilled 10 diameter mm hole as a reference (point 1);
- 7) Join the upper and lower bodies using the four M8 screws removed before;
- 8) Tighten the M 10 t.e. screw without hexagon nut using a 17 mm wrench and ensure it enters the shutter shaft via the 10 mm hole (previously drilled);
- 9) Install the roller band in its appropriate housing;
- 10) Apply the semi-gears, holding them with the two M 8 screws;
- 11) Tighten the M 10 t.e. screw with nut so as to block the gearmotor on the shaft and tighten nut;
- 12) Place the last canvas of the shutter on the shaft and drill a 12 mm diameter hole at the same location as the M10 threaded hole on the gear;
- 13) Tighten by hand the gear by 1-1 1/2 turns by bringing the grip towards microswitch I (down) fig. 1 (it must turn easily);
- 14) Lock the shutter to the gearmotor using the M 10 t.e. screw with washer (using a 17 mm wrench);
- 15) Make the electrical connections described in page 7 passing the 4x1 mm cable supplied inside the shutter shaft avoiding any contact with the rotating parts;
- 16) After having installed the mechanical parts and electrical contacts, proceed to regulate the end of travel;
- 17) Turn the end of travel grip by hand until you hear the click of the microswitch's trigger (down regulation completed);
- 18) Turn the other grip towards microswitch II (up). Switch on current to the gearmotor via the key selector or button to ensure that when rising the shutter stops at the correct point to regulate the position, adjust the grip, using solely and exclusively the electric commands taking all precautions to avoid manual lifting;
- 19) Should the shutter need to be installed contrary to the description in fig. 1, the steps described above should be carried out to the contrary as microswitch II will stop the descent and microswitch I will stop the opening.



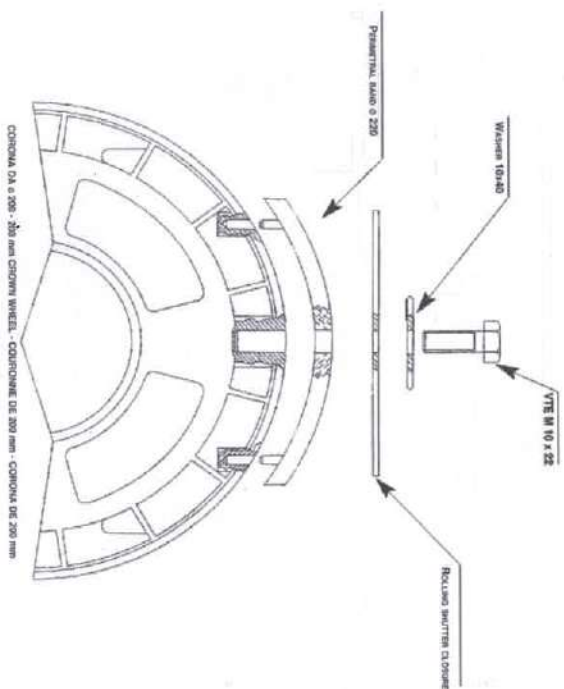


Blow up view of the electrobrake



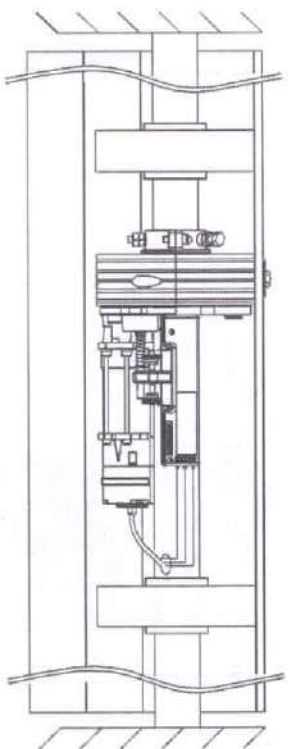


The Chinabolt built with a 200 mm crown wheel, which can be converted into a 220 mm crown wheel by the use of a perimetral band.



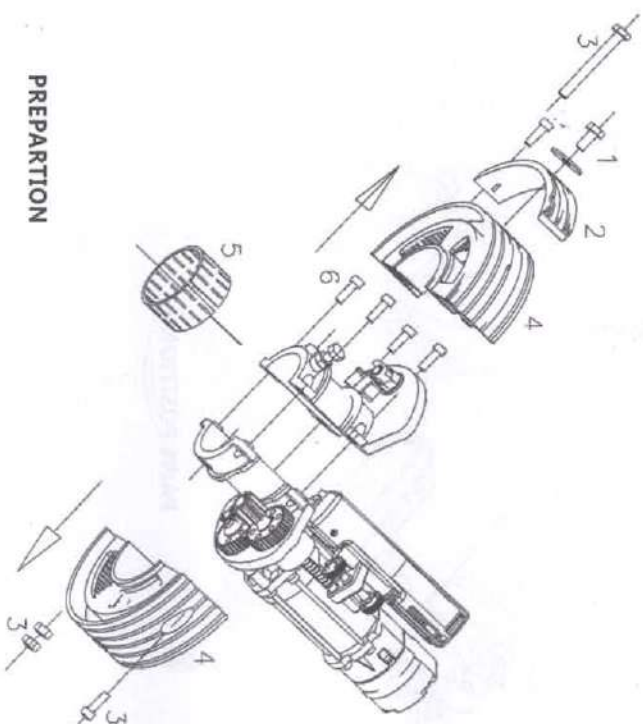
#### EUROSAFETY . EUROSAFETY PLUS . UNISAFETY . UNISAFETY PLUS

Eurosafty and Unisafty are version of the gearmotors with safety device carried out to the stop the free fall of roller shutters and at the same time, in Plus version, to interrupt the motorreducer's feeding.

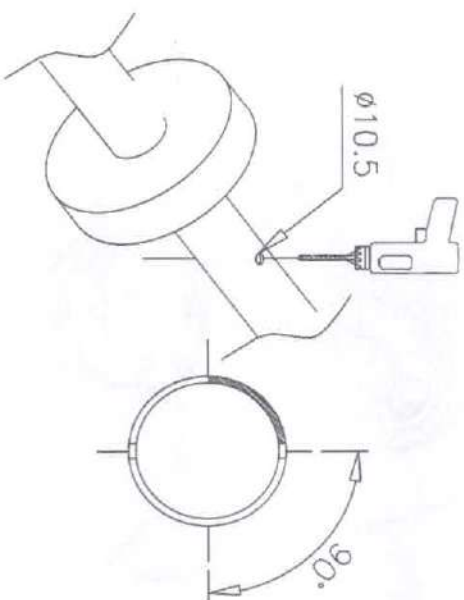


#### TOWARDS OF INSTALLATION OF THE GEARMOTOR

a)

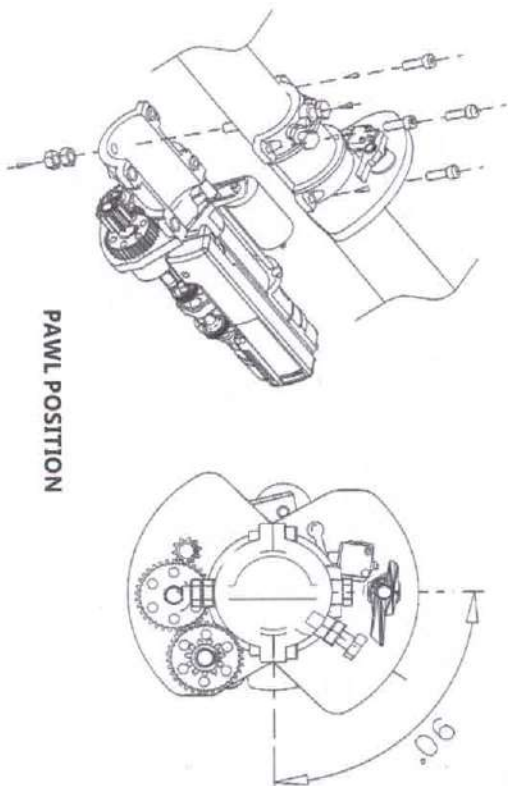


#### PREPARATION

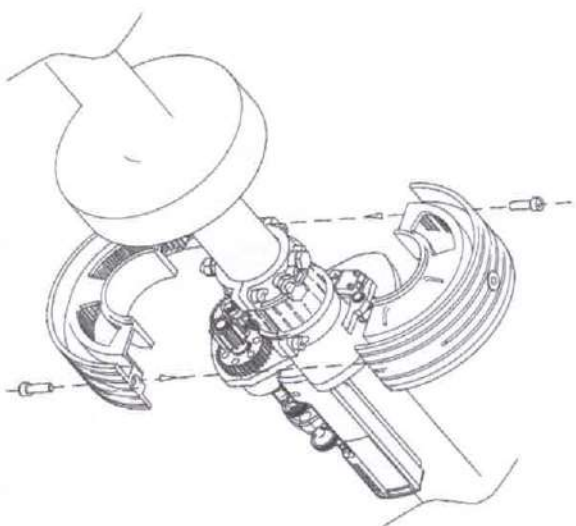


#### ON THE AXIS OF THE SHUTTER TO PRACTICE 1 HOLE

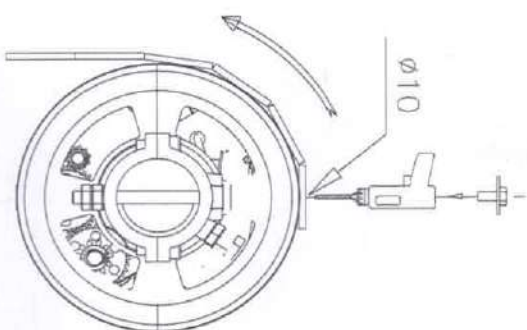
b)



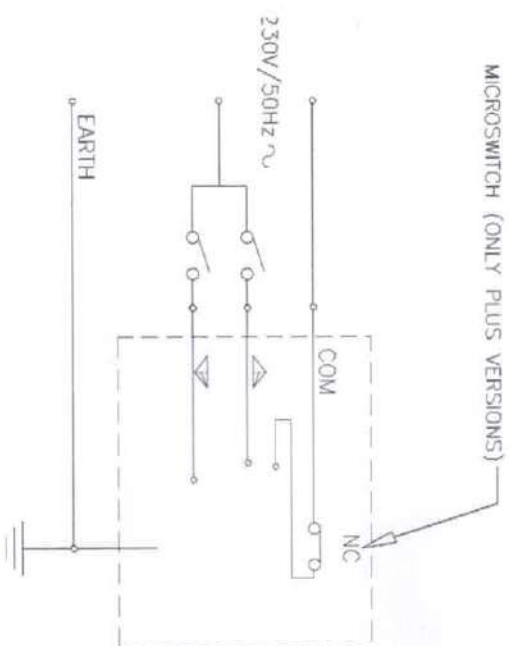
PAWL POSITION



c)



DOWNWARD RUN OF THE ROLLER SHUTTER



ELECTRICAL WIRING SCHEME



## Central gearmotors for rolling shutters