AM20 Plantation Shutter Motor Manual Instruction

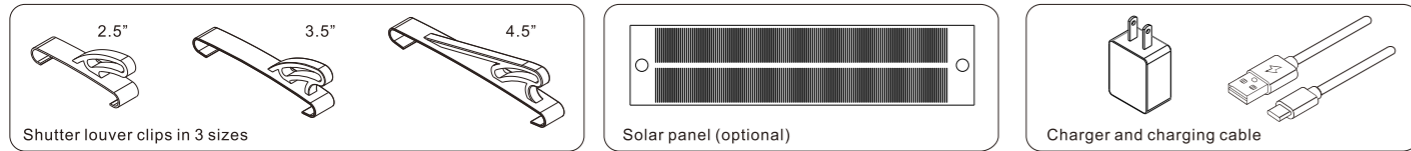## Ⅰ.Motor Features

AM20-D50N-82MM

- User friendly removable battery case; accept 5V type-C USB charging
- Built-in 900mAh rechargeable lithium battery. Motor can connect with solar panel extending running time.
- Compatible both Bluetooth bi-directional communication control and radio frequency remote control.
- Featuring rational light tilting mode and one touch tap-to-run mode.
- The push/pull force is up to 50N (5kgs).
- Running speed 8mm/s, quick response.
- Various fixed methods are available, screws fixed and 3M adhesive tape.

Ⅱ.Motor specification

Push/ pull power	Running speed	Running distance	Rated power	Charging voltage	Battery capacity	Standby time	RF frequency	IP class	Operation life	Working Temperature
50N	8mm/s	0-82mm	2W	5VDC	lithium battery 900mAh	3 months(It is recommended to charge every three months)	433.92MHz	IP32	15000 times	-10℃ -+55℃

Ⅲ.Accessory

2.5" 3.5" 4.5"

Shutter louver clips in 3 sizes

Solar panel (optional)

Charger and charging cable
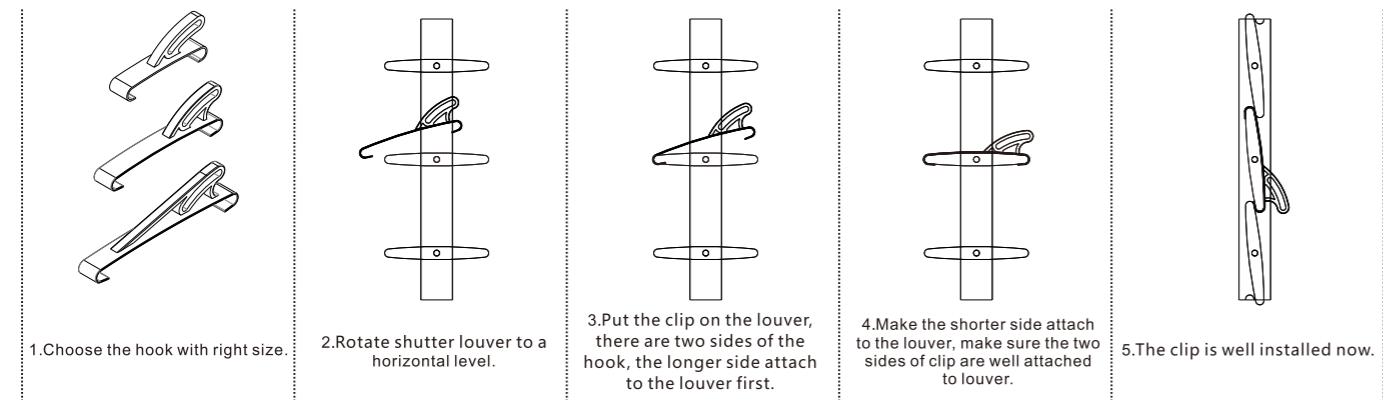
Ⅳ.Installation instructions

Shutter louver clips installation method

In order to achieve better light blocking effect, the clip is recommended to install onto the middle louver of the shutter.

1.Choose the hook with right size.

2.Rotate shutter louver to a horizontal level.

3.Put the clip on the louver, there are two sides of the hook, the longer side attach to the louver first.

4.Make the shorter side attach to the louver, make sure the two sides of clip are well attached to louver.

5.The clip is well installed now.

Plantation Motor Installation Method

Preparation

1.When the clip is well installed, make the shutter louvers fully closed.
2.The driving rod of the motor should run to the lowest limit(the default limit of the motor is lower limit),and insert the rod to the arc-shaped hole of the hook.
3.Pull the motor straightly down, make sure the shutter louvers are tightly closed, and mark down the position of the motor.
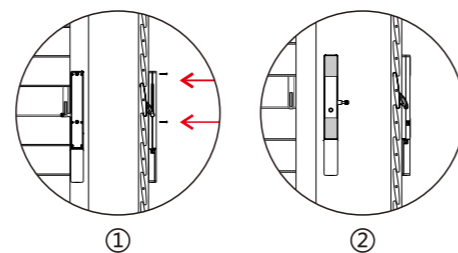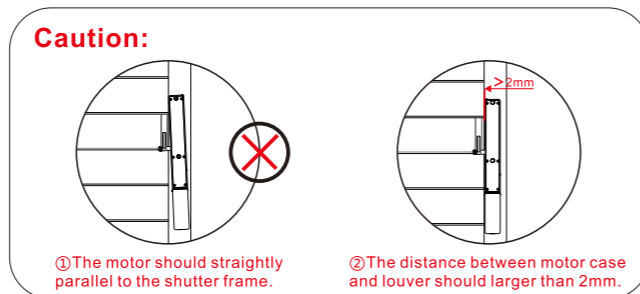
Fixed the motor

Method 1: screw fixed
a.Fix the motor onto shutter and mark position.
b.Use Phillipe screwdriver to fix two screws on the motor(like the right picture①), the screws are in the accessory kit package.
c.Attached the clip to motor rod, lock the screw nuts.
d.Press the two screw caps into the screw holes, Motor installation completed.
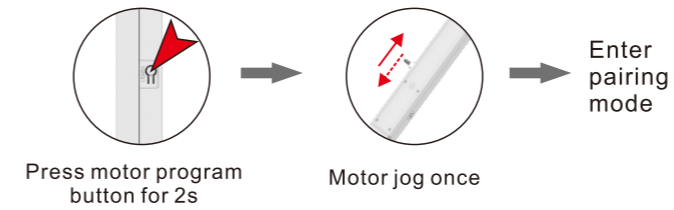
Method 2: 3M adhesive tape fixed
a.Put the 3M adhesive tape on motor(like right picture②), don't attach the adhesive tape on battery pack.
b.Install the motor on the marked position.
c.Attached the clip to motor rod, lock the screw nuts.
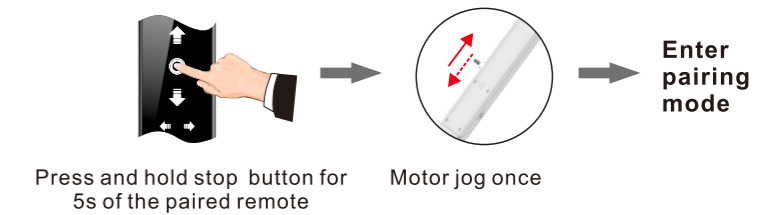d.Press the two screw caps into the screw holes, Motor installation completed.

Caution:

①The motor should straightly parallel to the shutter frame.

②The distance between motor case and louver should larger than 2mm.

>2mm

① ②

Ⅴ.Operating instructions

1.Enter pairing mode

Method 1

Press motor program button for 2s

Motor jog once

Enter pairing mode

Method2

Press and hold stop button for 5s of the paired remote

Motor jog once

Enter pairing mode

2.Pair to remote

Make motor enter pairing mode, press "UP" on remote for 1s

Motor jog once

The motor and remote is now paired
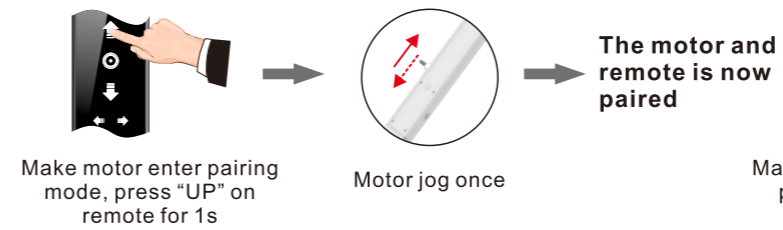
3.Reverse motor direction

Make motor enter pairing mode, press DOWN on the paired remote for 1s

Motor jog once

Direction reversed
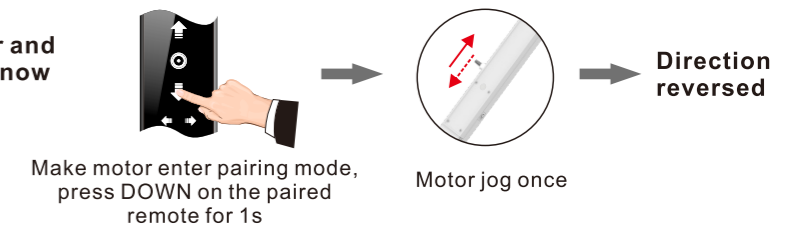
4.Switch light tilting mode and tap-to-run mode

Make motor enter pairing mode,press STOP on paired remote for 1s

Motor jog once

Running mode is now switched (the default one is light tilting movement mode)
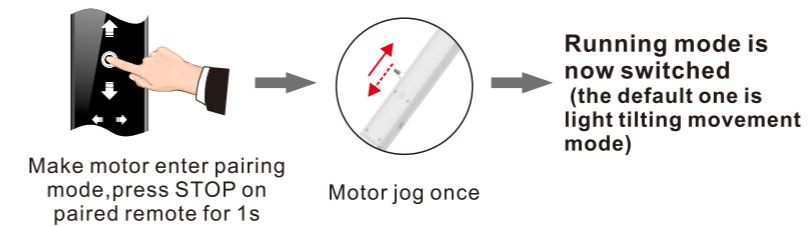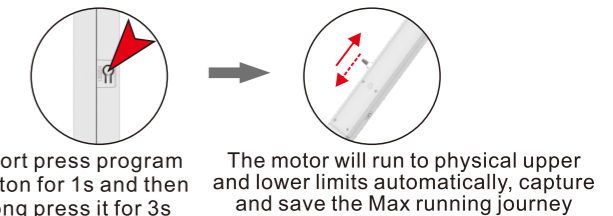
In tap-to-run mode, if middle limit has been set, the motor will stop on middle limit, press UP or DOWN, motor will move to next limit position.
In light tilting mode, short press UP/DOWN, motor will only tilt in rational angel, while long press UP/DOWN >2s, the motor will run continuously. If middle limit has been set, the motor will stop on middle limit.
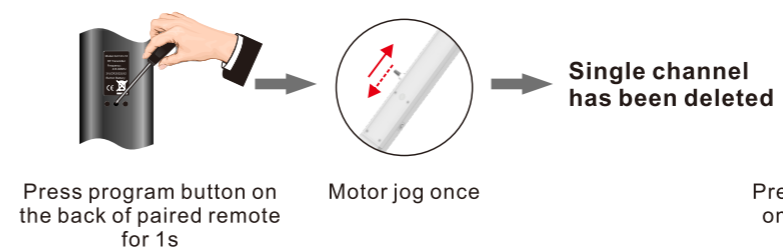
5.Movement calibration function

(one short press + one long press)

Short press program button for 1s and then long press it for 3s

The motor will run to physical upper and lower limits automatically, capture and save the Max running journey
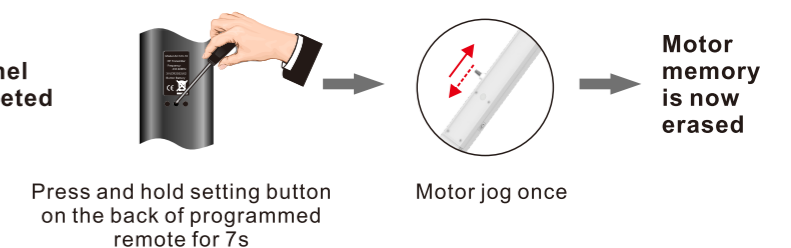
Movement calibration function: Automatically capture and save physical upper and lower limits, this will help to protect the motor case. When motor is in movement calibration mode, the push/ pull power will be reduced so that motor can be easier to record the max journey. it's recommended to calibrate the journey each time before installation in no-load condition.

6.Delete single channel

Press program button on the back of paired remote for 1s

Motor jog once

Single channel has been deleted

7.Delete all memories

Press and hold setting button on the back of programmed remote for 7s

Motor jog once

Motor memory is now erased

8.Adjust upper/lower limits

When movement calibration finished, the default upper limit is max journey calibration, and the lower limit is minimum journey calibration.

Make the motor run to upper /lower limit, press setting button on the back of programmed remote

Motor jog once, motor enter adjusting mode

Press UP/ STOP/DOWN, adjust the louver to a desired angle

Press setting button on the back of remote again

Motor jog once

The motor will save the current upper/lower limit