

Automatic elevating pool cover

Installation Instructions



Fig 1

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1、 Function Introduction

This product uses a multi-link intelligent motor control system, which can be triggered with just one button. With a simple press of a button, this fully automatic pool cover can be quickly opened or closed within half a minute. When closed, it can effectively prevent fallen leaves, snow and other debris from entering the pool; when opened, it creates a private and comfortable swimming environment for you. The intelligent control system makes operation more convenient while ensuring safety.。

2、 Materials Check

1、 Check the quantity of packaging materials:

(1) Swimming pool cover: Pearl cotton winding, outer carton;

(2) Column: Each column is wrapped with pearl cotton, a total of 4 columns;

(3) Accessory box: Wooden box, including columns, screw bags, decorative covers, remote controls, transformers and other accessories.

Attention: Materials must be lifted and placed gently and are not allowed to be stepped on.

2、 Read the following exploded view to understand the product components.

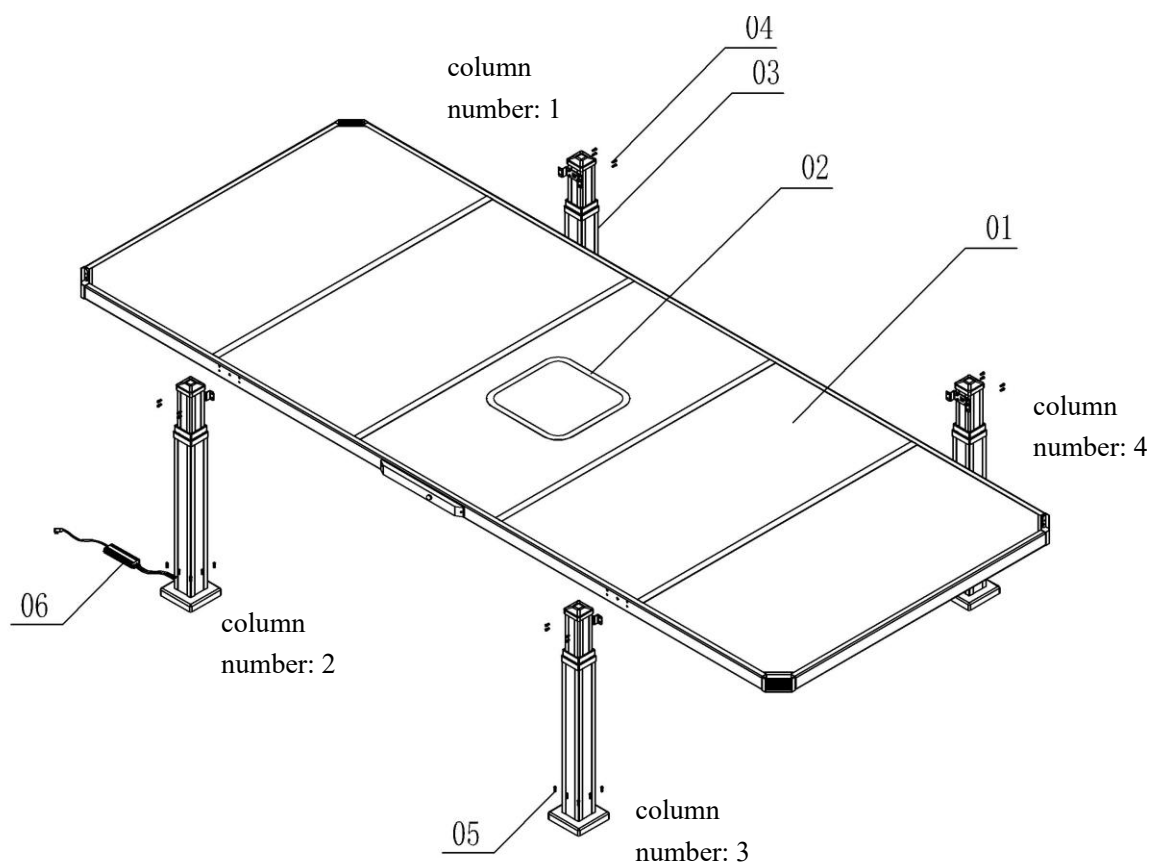


Fig 2.1

Bill of Materials				
No	Name	Photo	Size (mm)	Num
01	Cover		By Order	1SET
02	Escape window		630*630*75	1SET
03	Column		By Order	4SET
04	M8 nut, with cap		M8*20	16PCS
05	M8 expansion screw		M8*80	16PCS
06	transformer		Input: AC175-265V/50-60Hz Output: DC24V/400W	1SET
07	Control		43*107	2PCS
08	Wall mounted remote control		86*86	1PCS

3、Installation Notes

Please read the following precautions before installation:

1、 This system should be wired by qualified electricians. The wiring should be firm and reliable, and all wiring work should comply with relevant electrical regulations. Installation by professionals。

2、 Before installation, please read the relevant schematic diagrams in the product manual carefully to avoid incorrect installation and accessory connection that may damage the product and cause casualties。。

3、 The power supply circuit of the installation site of this product should be equipped with an independent leakage protection device for this product, with a rated operating current of $\leq 30\text{mA}$ and a current overload protection device.

4、The installation site of this product must have reliable electrical grounding facilities and devices. Before installation, please confirm that the installation site should have a power line that can provide the corresponding load power for this product.。

5、Do not connect load devices that are not configured or recommended by the manufacturer to this system.。

6、It is strictly forbidden for anyone to dismantle the system, change the wiring, or replace components without permission.。



DANGER: Installation must be performed by a licensed and certified electrician in accordance with the National Electrical Code and all applicable local codes and regulations; electrical accidents may occur due to improper installation, resulting in death or serious injury to the user or installer, and may also cause property damage.。

4、Circuit Schematic

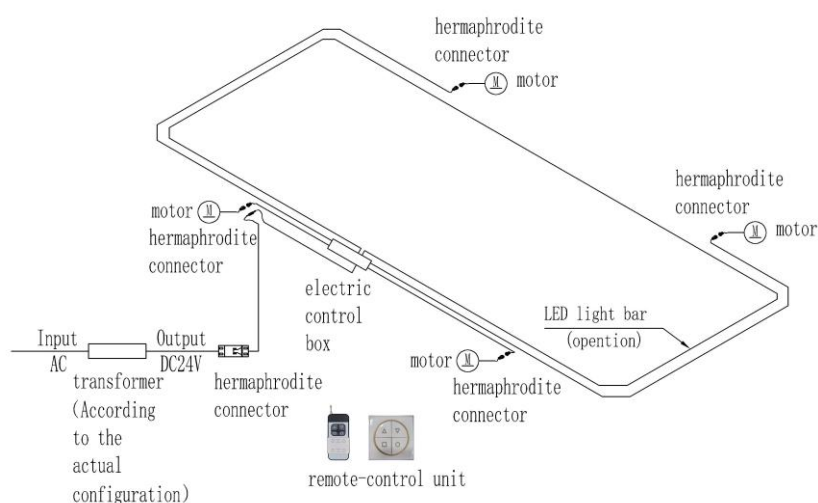


Fig 4.1

5、Installation Instructions

1、Before installation, determine which side of the pool the power outlet is located on and that the electrical control box and power supply are on the same side.

2、Lay the swimming pool cover flat on the ground with the top facing up. The top and bottom of the swimming pool cover are shown in Figure 5.1. Put the escape window into the hole reserved in the middle of the cover.

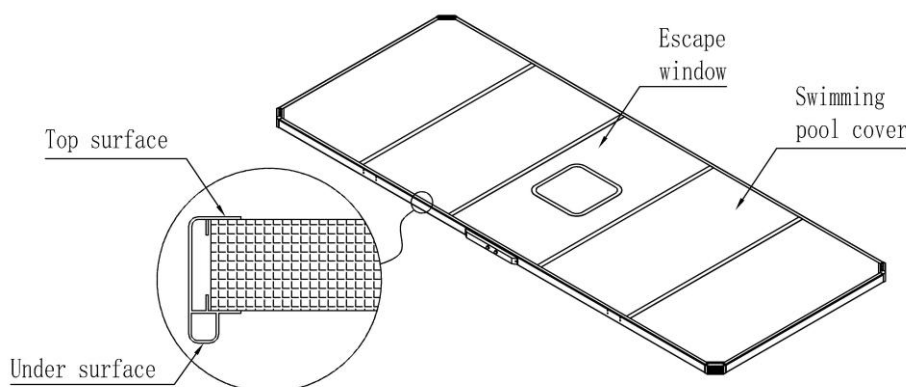


Fig 5.1 Cover section

Fig 5.2

3、 Place the pool cover in the center and flat on the pool. (Warning: At least 4 adults are required to operate it. Minors are prohibited from operating it. Under no circumstances are people allowed to stand on the pool cover).

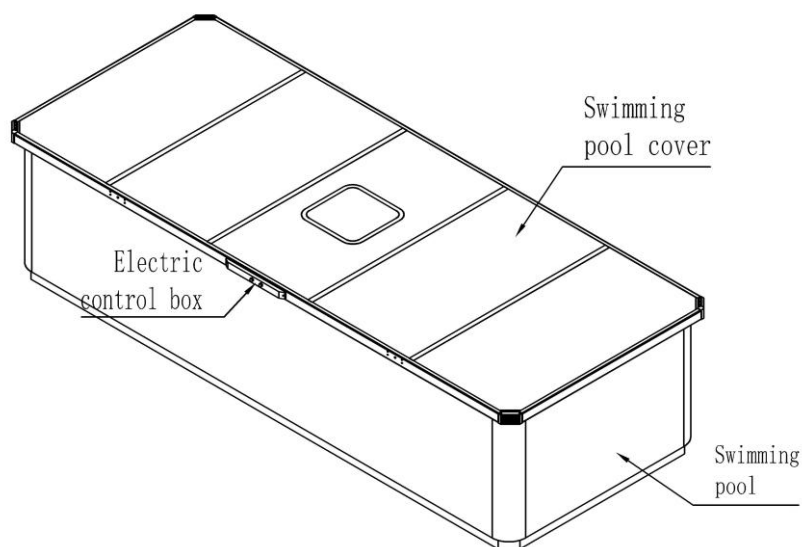


Fig 5.3

- 4、 (1) Place the column with the wiring connector on the left side of the electric control box, as shown in Figure 5.3. (Note that the column arrangement position refers to 2.1)
- (2) The male and female connectors on the upper part of the column are connected to the male and female connectors on the side of the pool cover, and the transformer is connected.
- (3) Use M8*20 screws to tighten the posts to the pool cover.

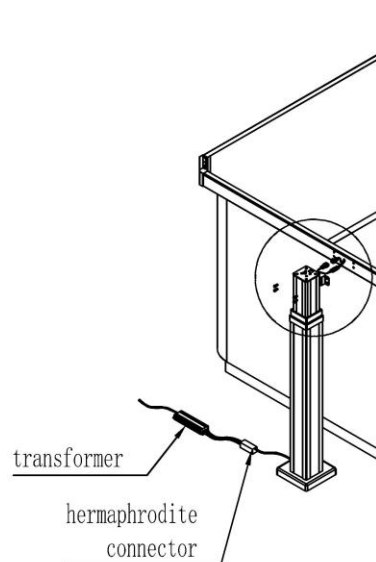


Fig 5.4

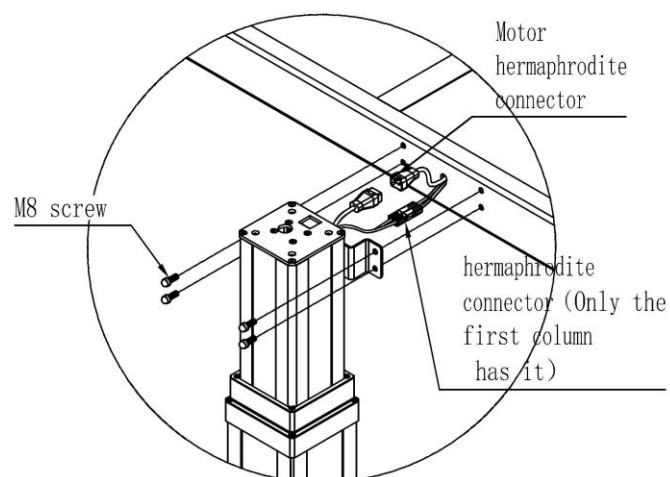


Fig 5.5

5、 Adjust the column to make it vertical to the ground, lift the decorative cover, drill holes on the ground according to the holes on the bottom plate, insert M6*60 expansion screws, and tighten them in sequence. After installing the columns, use ST4*14 Cross-head countersunk self-tapping screws to assemble the two decorative covers and cover the base plate.

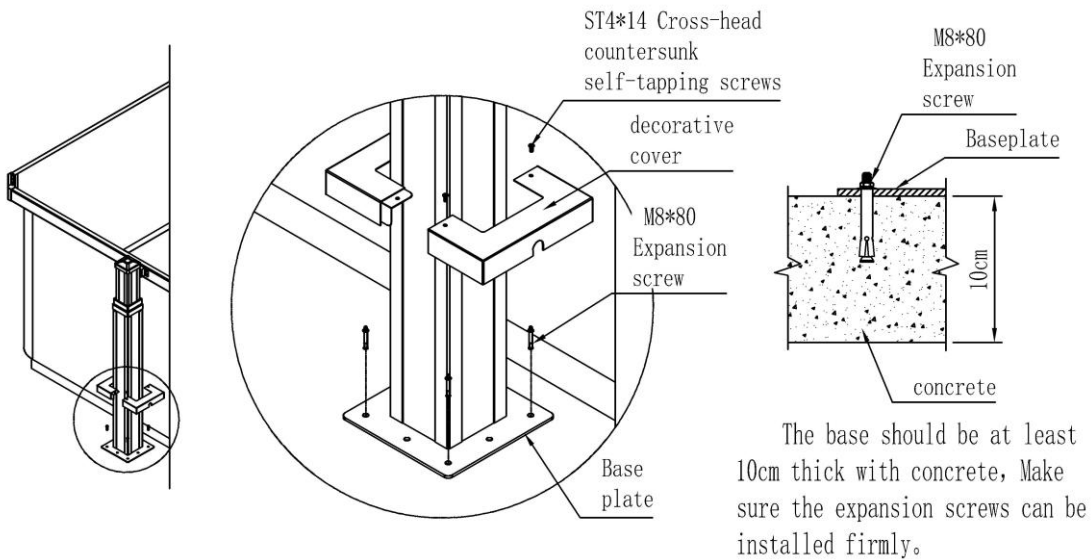


Fig 5.6

Fig 5.7

Fig 5.8

6、Install the column support assembly:

As shown in Fig 5.9, first weld the square tube inside the side panel of the swimming pool, and use M6*6 flat head screws to install the flat bar to the column. Adjust the height of the fixing plate, install the flat bar on the fixing plate with M6*12 flat head screws, and tighten the fixing plate to the square tube inside the panel with M5 screws.

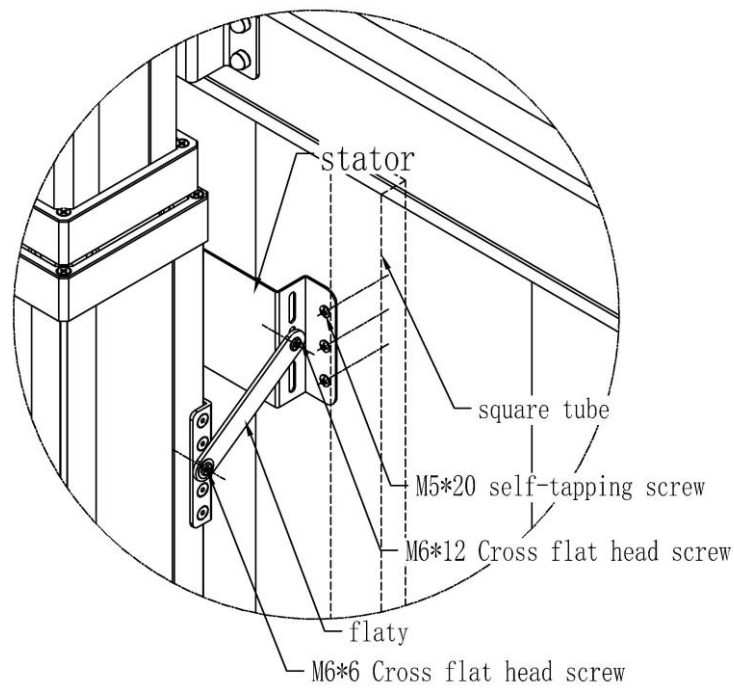


Fig 5.9

7、Install the remaining three sets of columns in sequence;

8、Install the sealing strip:

Lower the cover to about 5cm from the pool surface and stop (as shown in Figure 5.9), and determine the appropriate position for sticking the sealing strip. Tear off a section of the protective film of the sealing strip, and then lower the cover to make the sealing strip stick to the bottom of the cover. Raise the cover again and repeat the above operation, sticking each section firmly in a circle.

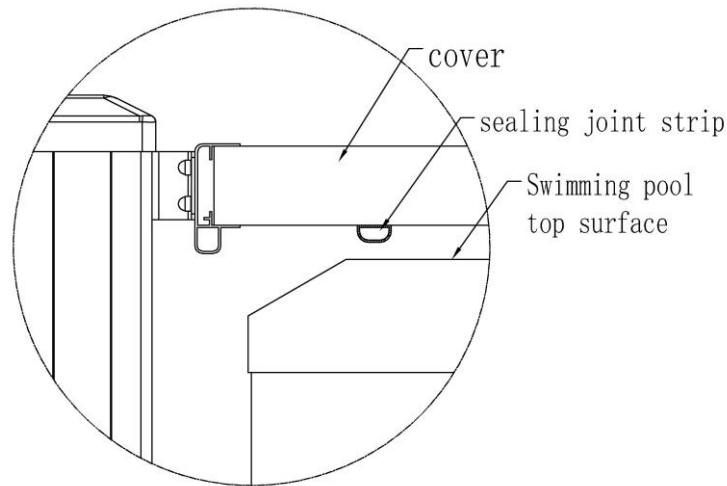


Fig 5.9

9、Check again whether the circuit is in good contact and whether all components are firmly installed.。

6、Instructions

1、Turn on the power switch to ensure normal power supply. Use the remote control to operate.

(1) Method 1: Use the handheld remote control (Figure 6.1).press the Up button or Down button to control the lifting of the pool cover, and press the pause button to stop lifting.

(2) Method 2: Use the wall-mounted remote control (Figure 6.2). Press the Up or Down button to control the rise and fall of the pool cover, and press the Pause button to stop the rise and fall.



Note: Before the product leaves the factory, the manufacturer has set the starting height and the end height of the cover. If adjustment is required, refer to Appendix 1.

2、The pool cover should not be raised for continuous use for more than 12 hours. The pool cover should be lowered in time after use, otherwise the pool cover may be deformed;

3、After using the product, the main power supply should be disconnected to avoid leaving the product powered on for a long time.



Danger: Do not raise or lower the pool cover when someone is in the pool.

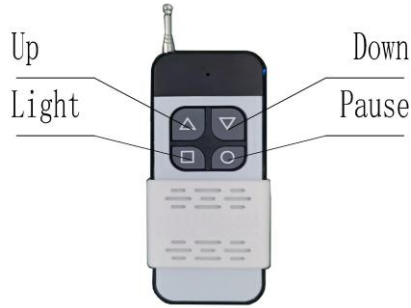


Fig 6.1

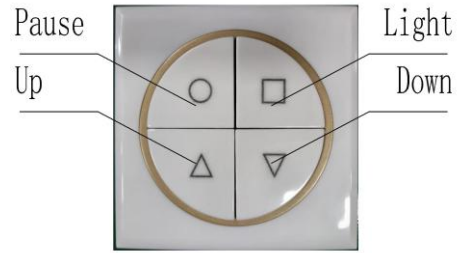


Fig 6.2

7、Product Care and Maintenance

- 1、Do not use strong acid to clean;
- 2、It should be inspected regularly and the manufacturer should be contacted in case of abnormal noise or malfunction.

8、Troubleshooting methods.

No	Fault phenomenon	Workaround
1	Operation cannot be raised or lowered	1. Check whether the controller is powered normally. 2. Check whether the remote control battery is charged.
2	Remote control has low sensitivity and short distance	Replacing the remote control batteries
3	There is abnormal noise or vibration during lifting operation	1. Check if there are any foreign objects blocking the extension and retraction edges of each lifting column 2. Check if each lifting column is tilted.
4	Stopping during operation	Check whether the lifting columns are synchronized and recalibrate the level.
5	The lifting operation stops before reaching the target position	Reset the travel target position.
6	Slowdown or interruption of operation	Check for overload.
7	Functions not available	The control system hardware is faulty. Contact the dealer or manufacturer for help.

9、Technical performance parameters.

Input voltage	According to the region	Operating voltage	DC24V
Working current	3A	Maximum operating power of motor	600W
Running speed	480mm/min	Maximum load	300KG
Maximum stroke	Subject to the drawing	Initial minimum height	Subject to the drawing
Remote control frequency	433MHz	Remote control signal distance	≤15M
Electrical strength	1250V 1 minute, no breakdown	Insulation resistance	≥200MΩ

Appendix 1: Itinerary Adjustment



Warning: The power can be turned on only after the four sets of columns are installed.

Make sure the electrical interface is connected to the leakage protection switch and is well grounded; during the debugging process, personnel are prohibited from being under the swimming pool cover.

1、Open the electric control box and identify the display screen and operation buttons, as shown in Figure 7.1.

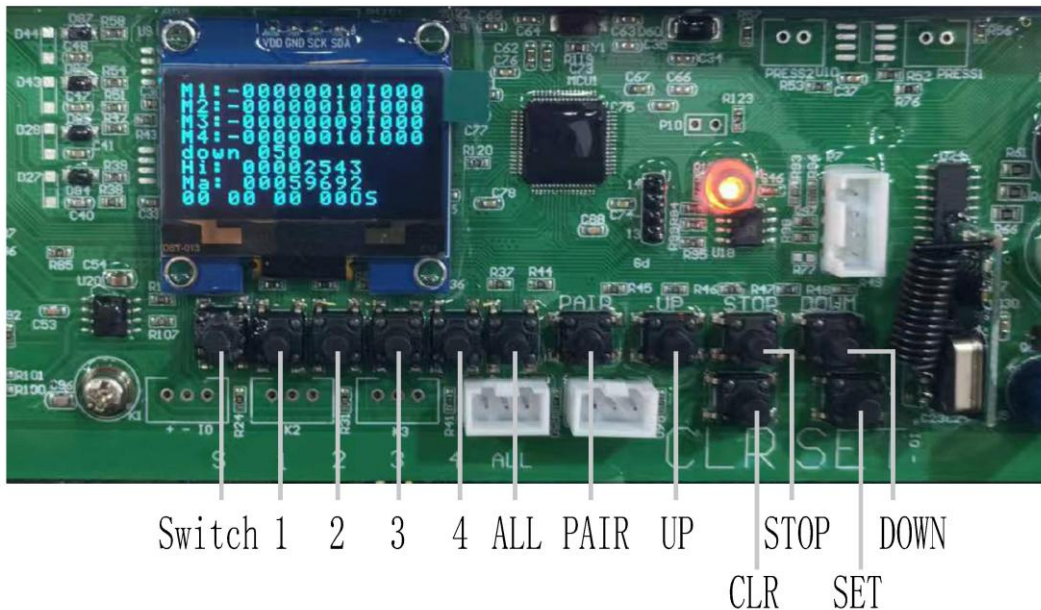


Fig 7.1

2、Button Description:

Switch: Ascending/descending mode adjustment, after pressing, the corresponding position on the display screen will change, as indicated by the arrow in Fig 7.2 below.

1, 2, 3, 4: Single column control (control the movement of a single column. When the display screen is Up, long press the corresponding column to rise. When the display screen is Down, long press the corresponding column to fall.)

PAIR: Pairing button, used to pair with the remote control. Short press once and then press the remote control to be paired. Long press to clear the previous pairing (pairing is completed by default.)

UP: Automatic rise button, after pressing, the four columns rise together until they stop at the set highest point.

STOP: Stop button,

DOWN: Down button, press it and all four pillars will go down together

CLR: Clear the lowest point memory and use the current position as the lowest point.

SET: Clear the highest point memory and use the current position as the highest point.

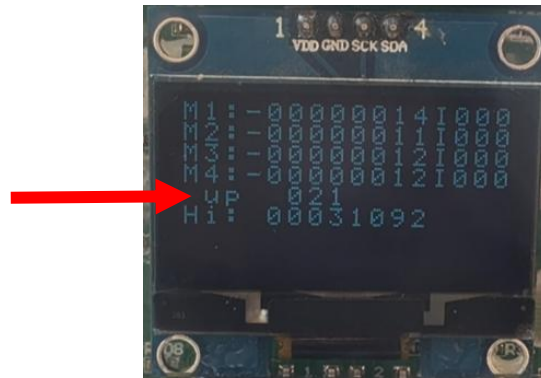


图7.2

3、The following is the process of adjusting the swimming pool cover:

(1) Place the pool cover at the bottom, make sure the four sides are level, and then click the CLR button to memorize the current lowest point. Then all the numbers before I on the display screens M1-M4 will be reset to zero, as shown in Figure 6.3.

(2) Confirm that there is an UP indicator on the display. If it is DOWN, press SWITCH to switch it to UP.

(3) Equip a staircase next to it, press and hold ALL, and measure the height of the column at any time. (If the column is not level during the movement, adjust the height of a single column by pressing 1/2/3/4.)

(4) When the measured column height is close to the height in the drawing (see the attached drawing), stop moving the column. (Note!!! Be sure to measure at any time to prevent excessive rise from causing permanent damage to the components!)

(5) When the column height is determined, release the ALL button and click the SET button to memorize the current maximum height.

(6) Press DOWN to test the automatic descent, and press UP to test the automatic rise. After multiple tests, lock the electric control box. Debugging is complete.



Fig 7.3

4、Precautions:

(1) The lowest point should be the initial contact point between the cover plate and the rubber strip, which is the best, and the rubber strip should not be pressed tightly. The highest point should ensure that the distance between the upper edge of the slat and the ground is 3-5cm lower than the design value on the drawing to ensure the safe operation of the motor and transmission components.

- (2) Each time CLR sets the lowest point, it must reset the highest point.
- (3) Each time you reset the travel, you must first set the lowest point, then the highest point. You cannot set the highest point first, then the lowest point!
- (4) When adjusting the lowest point, always pay attention to the distance between the cover and the cylinder body. When the cover contacts the cylinder body, be sure to stop descending, otherwise there is a risk of damaging the motor and transmission components!
- (5) When debugging the highest point, you need to measure the height from the upper edge of the cover to the ground while moving. When the height of the upper edge of the cover is close to the design height, you cannot continue to rise, otherwise there is a risk of damaging the motor and transmission components!
- (6) If the red light on the electric control box continues to flash after the cover reaches the lowest or highest point and stops moving, it means there is a stall and you need to stop immediately and reset the highest and lowest points.