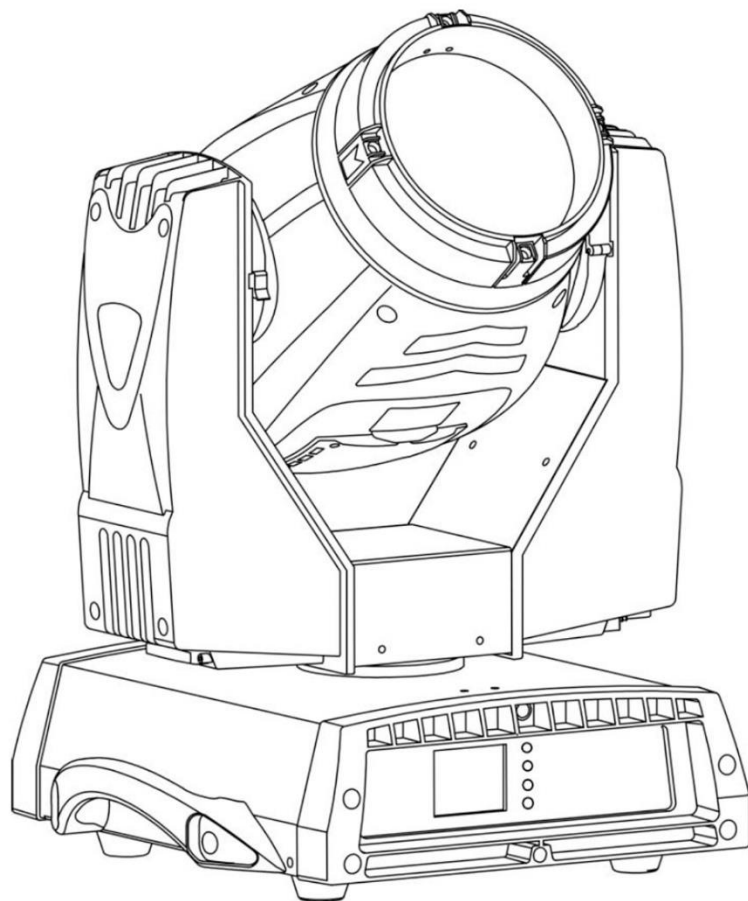


CYCLOPS

LIGHTING

AQUARAY 400B

OUTDOOR BEAM LAMP MOVING HEAD



CE

User Manual

CONTENT

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Statement:

The device is well packed and function well before delivery .Any user should follow the manual instructions and avoid the warnings detailed in the manual. Damages and problems caused by overlooking and incorrect operation are beyond the dealer and factory responsibilities .Users will not be further noticed if the manual is updated in the future possibly .Thanks for understanding .

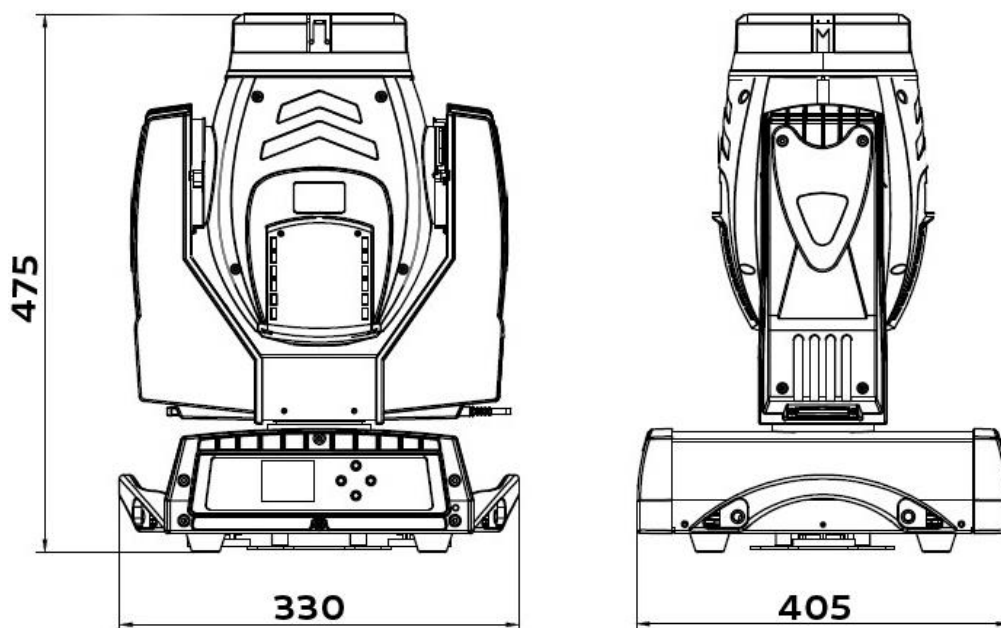
1. Brief Introduction

Thanks for choosing AQUARAY 400B, a product belonging to the Aquaray series of products made of high technologies, with international advanced electronic control technology and excellent user-friendly industrial design, fully complying with CE standard, accepted international standard DMX512 signal mode.

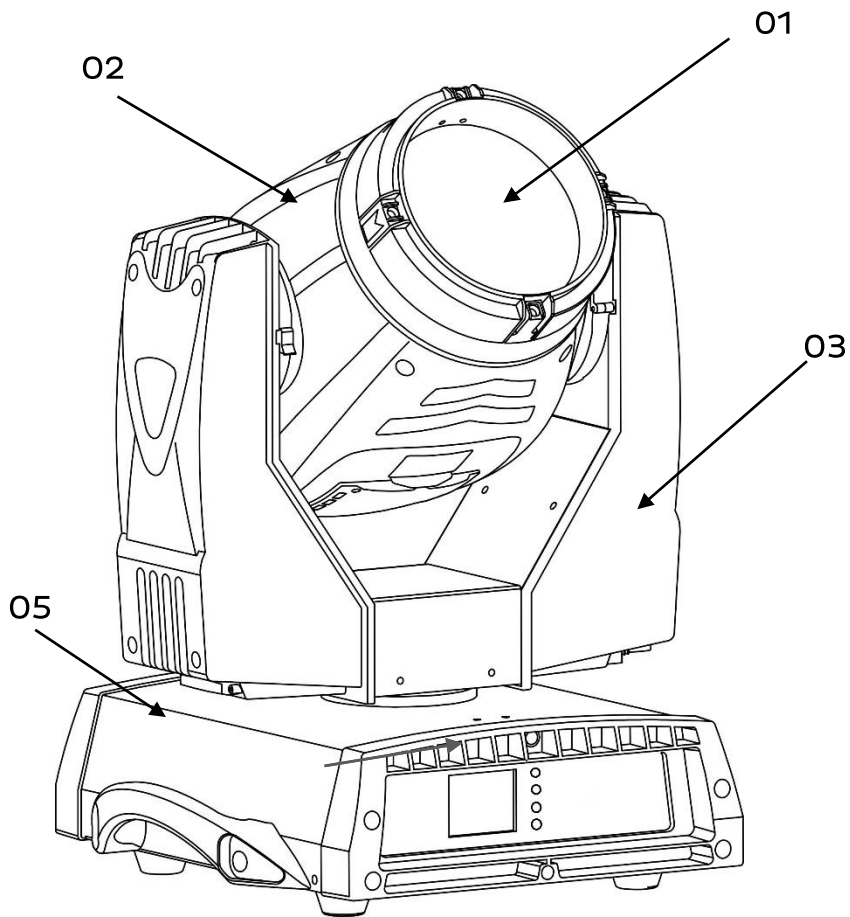
Equipped with the MSD 330W 15R short focus lamp and multi-layer lens, it can cast bright beam and clear gobos as well as fresh colors thanks to the high brand color wheel .Two DMX channels mode and Chinese and English language versions for you to choose .And the digits can cast upside-down, convenient to hang them on the truss .Pan scans 540°and Tilt runs 270°. There are 14 different colors plus open and 16 gobos plus open too. There are two prisms, one 16 facet and one 6 facet column which can controlled separately or synchronously .Aside of the linear dimmer and adjustable strobe functions ,the light is also equipped with the software fan speed cooling monitoring system. With these super features, AQUARAY 400B is widely welcomed by TV, EVENTS, VENUES, NIGHTCLUBS, and other indoor and outdoor applications.

2. Dimension

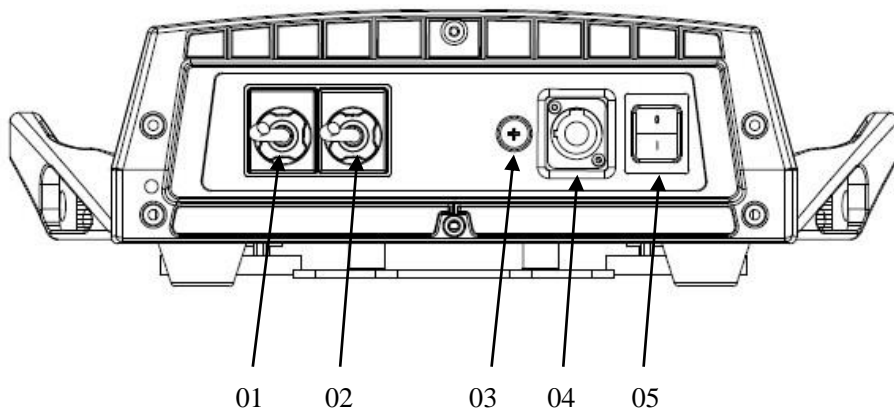
Size: 330 (length) × 405 (width) × 475 (height) mm



3. Components Info



- 01 - Lens
- 02- Body
- 03 - Arm
- 04 - Base



- 01 -3Pin DMX In
- 02 - 3Pin DMX Out
- 03- Fuse
- 04 - Power Socket
- 05 - Power Switch

Attached components info above for your better understanding of the AQUARAY 400B

4. Safety and Warning Info

This device is only suitable for professional purpose. Please examine well the items upon receipt, if any damages were inspected by delivery contact the company as soon as possible.

To steer clear of the damages caused by electric shock, fire, UV, lamp burst and device falling etc. please read the manual through before charging and installation. Being aware of all the danger notices and abiding by the instructions mentioned is crucial before and during the operation of the fixture. If any other question, your dealer.

4.1 Anti-overheating



Ta =40°C

Switch off the device immediately once the ambient temperature is over 40°C.

4.2 Prevention of burst

Change the lens if there are cracks or dent on it.

Only the original brand lens is suitable to change.

Lens Dimension: \varnothing 156×28 mm

4.3 Prevention of falling accidents



Do not carry the device alone.

Make sure the facility can withstand ten times the weight of the light before hanging.

Please make sure the mounting hardware is strong enough without any damage, and use the safety chain alongside for security. Let the pulley below the working place when installing or removing the device.

4.4 Anti UV

Staring at the casting beam is definitely forbidden.

Do not use the device without lens or cover.

Change the lens and cover if broken.


4.5 Prevention of electric shock



Do not open the device, there are no user-serviceable parts inside.

Only qualified electricians can connect the electric power.

Before connecting, make sure all the voltage comply with the specified type and equipped with overload and leakage protection. Ensure that power is cut off when wiring the device to the AC mains supply.

Ensure that the device is electrically connected to a solid ground. 

Switch off the power before replacing and installing the lamp.

Do not immerse the fixture in the water or liquid.

Do not apply power if the device or mains cable is in any way damaged.

4.6 Prevention of fire and burning

Do not install the device on flammable material surface directly.

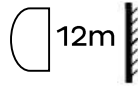


Do not short circuit the temperature protection terminal or fuse. Use the standard fuse.



Stay away of the inflammable material.

The fixture need to be positioned so that the objects hit by the beam of light are at least 12 meters from the lens.



The fan or the ventilation should be far from any material within the range of T 0.5m

Do not put any item over the lens.

Cooling the device at least 20 minutes before package and delivery.



Do not change with the unoriginal brand spare parts.

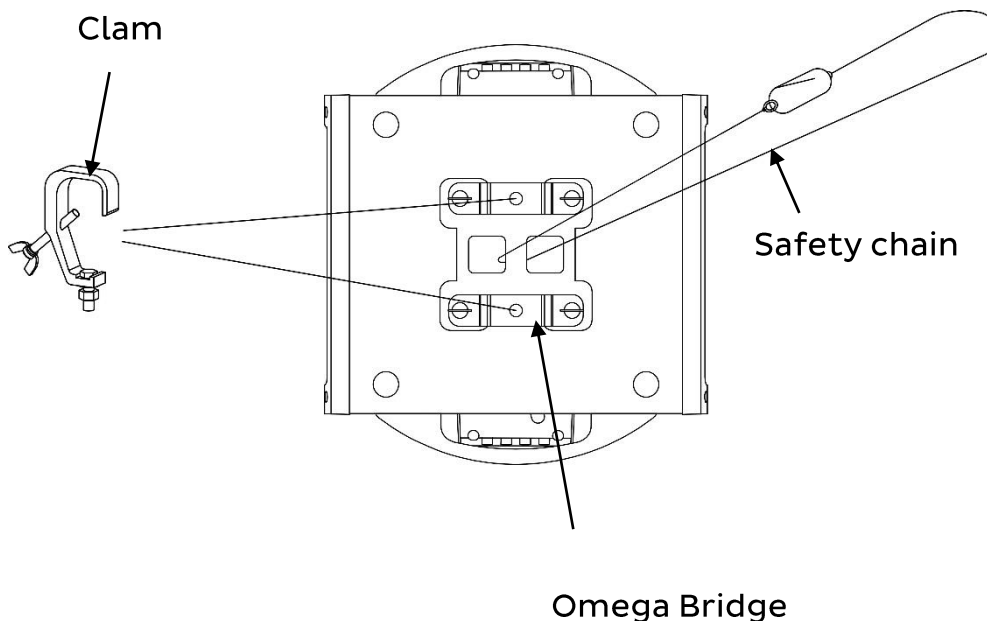
4.7 PI 55 Protection Rating.

The fitting is protected against dripping water, rain, splashed or jets of water. It **cannot be** immersed in water.

Attention



In order to fix the device securely, using 2 omega holders and 4 quick lock fasteners correctly into the quick lock whole turned 90 clockwise is necessary. Adding a safety chain to the base whole not the handle is extra and necessary safety method.



5. DMX512 Connection

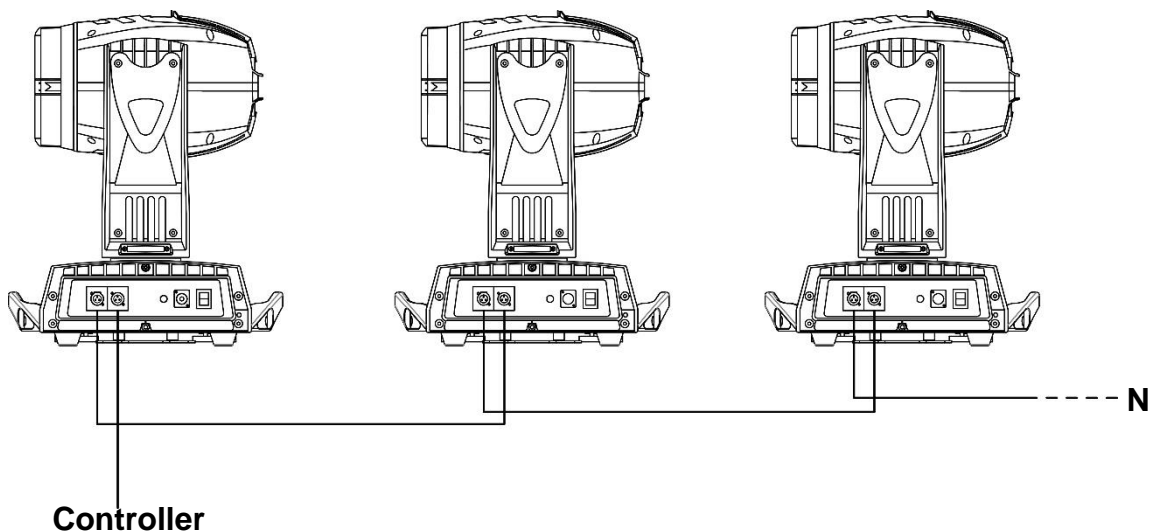
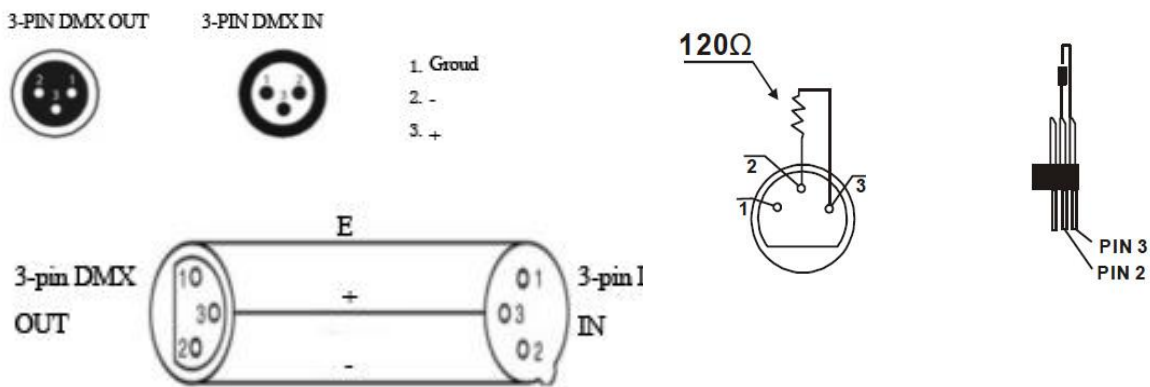
DMX512 cable must use the professional shielded twisted pair cable. The standard loudspeaker cable is not reliable to control the long-range data. 24 AWG cable is suitable for more than 300 meters long-distance signal transmission and must add the DMX 512 signal amplifier.

Do not use two outputs to separate the connection, if separated, a DMX512 splitter is necessary. If use the DMX512 splitter, at first connect DMX512 Splitter input terminal to controller and then connect from the splitter output terminal to next device.

Do as above to connect other devices, and finally coupled with a 120 Ω loop resistance terminal insertion.

DMX-512 loop resistance terminal

If the DMX line is too long or placed in some noisy electric signals places like disco, nightclub, ballroom etc... Using DMX loop resistance terminal is necessary. Welding a 120Ω resistor terminal between the pin 2 and pin 3 as below and plug it into the last light XLR output terminal.



6. Package Info

AQUARAY 400B is packed in 1 in 1 or 2 in 1 flight case or carton with accessories inside.

Accessories accompanied with one light

| Item | Quantity |
|--------------|----------|
| Manual | 1 |
| Safety chain | 1 |
| Omega clamp | 2 |
| DMX cable | 1 |


7. AC Input Power

AQUARAY 400B input voltage, power consumption, and fuse standard

| Input Voltage | Power Consumption | Frequency |
|---------------|-------------------|-----------|
| 110~240V | 550W | 50/60HZ |

| Fuse Voltage | Fuse Current | Size |
|--------------|--------------|------|
| 250V | 5A | 5×20 |

Attention: Only qualified electrician can operate the power related work. Make sure the voltage input comply with the specified standard as well as grounded and equipped with overload and leakage protection.

| Live | Neutral | Earth |  |
|------|---------|--------------|--|
| Red | Blue | Yellow-green | |

8. Lamp Info

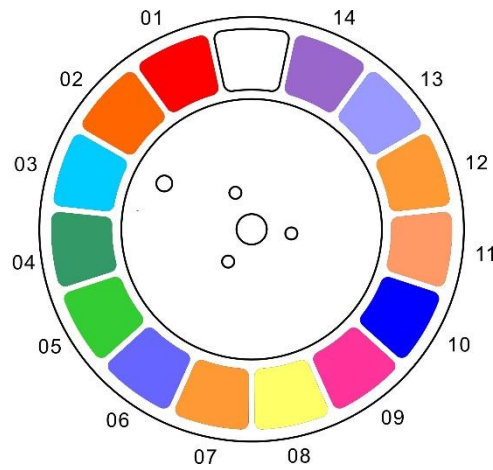
IP Lamp Info

| Brand | Power Consumption | Lifespan | Color Temperature |
|---------|-------------------|----------|-------------------|
| Phoenix | 330w | 1800hrs | 8000K |

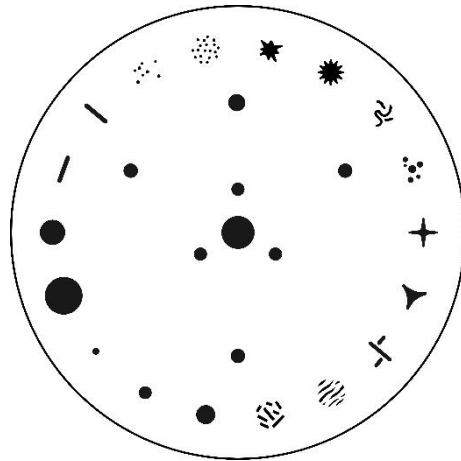
Warning! In case of the extra potential damages caused by lamp burst, change the lamp before it's over 125% specified lifespan.

9. Color and Gobo Wheels Info

AQUARAY 400B is equipped with 14 colors plus open, pure color, excellent effect.



AQUARAY 400B is equipped with 16-fixed gobos plus open .Better effects with 16-facet prism.



10. Display Panel



Touch screen display: Display the data information and control operation



DMX Address



SYSTEM INFO



FEATURES SETTING



MANUAL



AUTOMATIC MODE



CALIBRATIONS



LAMP SETTING



LANGUAGE SETTING



180° REVERSE DISPLAY
AVAILABLE

Function Key :


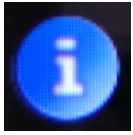
1: Return function


2: Up/Digit increase/Next function





3: Down/Digit decrease/Last function

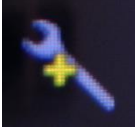
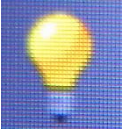


4: Mode choosing/Confirm function

11.LCD Menu

| Main Menu | Submenu 1 | Submenu 2 | Function SET | Function description |
|--|---------------|--------------|------------------|----------------------|
|  DMX Address | << | | 1-512 | to address 1 |
| | < | | | address up |
| | > | | | address down |
| | >> | | | to address 512 |
| | | | √ | save and back |
| | | | x | back |
|  SYSTEM INFO | Fixture times | | Power On Times | xxh |
| | | | Power On Number | xx |
| | | | Lamp On Times | xxh |
| | | | Lamp On Number | xx |
| | Versions | | Holder Control | xx |
| | | | Pan/Tilt Control | xx |
| | | | Display System | xx |
| | View Logs | 1/5 | ZOOM Status | OK/Er |
| | | | Focus Status | OK/Er |
| | | | Prism1 Status | OK/Er |
| | | 2/5 | Prism1R Status | OK/Er |
| | | | Prism2 Status | OK/Er |
| | | | Prism2R Status | OK/Er |
| | 3/5 | Color Status | OK/Er | |
| Static Gobo Status | | OK/Er | | |

| | | | | | |
|---------------------|-------------------|---|-----------------|-----------------------|----------------|
| | | | Rot Gobo Status | OK/Er | |
| | | 4/5 | | Rot.R Status | OK/Er |
| | | | | Pan Status | OK/Er |
| | | | | Tilt Status | OK/Er |
| | | | 5/5 | | Fan1 Speed |
| | | | | Fan2 Speed | Blower |
| | | | | ↑ | Page up |
| | | | | ↓ | Page down |
| | | | | x | back |
| | |  <p>FEATURES SETTING</p> | Control mode | | DMX |
| | Auto | | | Built-in program mode | |
| | Sound | | | Reserved | |
| Display intensity | << | | 0-500 | | to address 0 |
| | < | | | | address up |
| | > | | | | address down |
| | >> | | | | to address 500 |
| | | | √ | save and back | |
| | | | x | back | |
| Display Saver Delay | << | | 0-600 | | to address 0 |
| | < | | | | address up |
| | > | | | | address down |
| | >> | | | | to address 600 |
| | | | √ | save and back | |
| | | | x | back | |
| Pan Reverse | Off | | | | |
| | On | | | | |
| | | | √ | save and back | |
| | | | x | back | |
| Tilt Reverse | Off | | | | |
| | On | | | | |
| | | | √ | save and back | |
| | | | x | back | |
| Default Settings | Load Default Set? | | √ | save and back | |
| | | | x | back | |
| Channel Mode | | | 16 CH Mode | | |
| | | | 17 CH Mode | | |
| | | | 18 CH Mode | | |
| | | 20 CH Mode | | | |
| Reset | | Total System Reset | | | |
| | | Pan/Tilt Reset | | | |

| | | | | | |
|---|-------------------|---|--------------------|------------------|---|
|  MANUAL | | | Color System Reset | | |
| | | | Gobo System Reset | | |
| | | | Strobe Reset | | |
| | | | Optics Reset | | |
| | | | √ | save and back | |
| | | | x | back | |
| | Manual Control | Focus | | | to address 0 address up address down to address 255 save and back back |
| | | Pan | | | |
| | | Pan Fine | | | |
| | | Tilt | | | |
| | | Prism | << | | |
| | | Prism Rotation | < | | |
| | | Prism ZOOM | > | | |
| | | Frost | >> | | |
| | | Color | | | |
| Shutter | | | | | |
| Dimmer | | | | | |
| Static Gobo | | | | | |
| Tilt Fine | | | | | |
| Functions | | << | | | |
| Manual Control | | RESET | < | | |
| Manual Control | Lamp | > | | | |
| Manual Control | Pan/Tilt Speed | >> | | | |
| Manual Control | Color Functions | | | | |
| Manual Control | Prism 2 | | | | |
| Manual Control | Prism 2 Rotations | | | | |
| | |  | Page up | | |
| | |  | Page down | | |
| | | √ | save and back | | |
| | | x | back | | |
|  MANUAL | Auto Mode 1 | | | Built-in program | |
| | Auto Mode 2 | | | NULL | |
| | Auto Mode 3 | | | NULL | |

| | | | | | |
|--|-----------------|------------------|------|---------------|--|
| AUTOMATIC MODE | Auto Mode 4 | | | NULL | |
| | | | √ | save and back | |
| | | | x | back | |
| | | | | | |
|  CALIBRATIONS | Used in factory | | | | |
|  LAMP SETTING | Lamp status | Off | | | |
| | | On | | | |
| | | | √ | save and back | |
| | Settings | Lamp On Power | Off | | |
| | | | On | | |
| | | | √ | save and back | |
| | | x | back | | |
|  LANGUAGE | English | | | | |
| | Chinese | | | | |
|  180°REVERSE DISPLAY AVAILABLE | Forward side | | | | |
| | Reverse side | | | | |

12.Channel function description

| Chanel | Channel function description | | | |
|----------|------------------------------|-----------|-----------|-----------|
| | 16CH Mode | 17CH Mode | 18CH Mode | 20CH Mode |
| Language | English | English | English | English |
| 1 | Color | Color | Color | Color |
| 2 | Shutter | Shutter | Shutter | Shutter |

| | | | | |
|----|------------------|------------------|------------------|------------------|
| 3 | Dimmer | Dimmer | Dimmer | Dimmer |
| 4 | Static Gobo | Static Gobo | Static Gobo | Static Gobo |
| 5 | Prism 1 | Prism 1 | Prism 1 | Prism 1 |
| 6 | Prism 1 Rotation | Prism 1 Rotation | Prism 1 Rotation | Prism 1 Rotation |
| 7 | Prism 1 ZOOM | Prism 1 ZOOM | Prism 1 ZOOM | Prism 1 ZOOM |
| 8 | Frost | Frost | Frost | Prism 2 |
| 9 | Focus | Focus | Focus | Prism 2 Rotation |
| 10 | Pan | Pan | Pan | Frost |
| 11 | Pan Fine | Pan Fine | Pan Fine | Focus |
| 12 | Tilt | Tilt | Tilt | Pan |
| 13 | Tilt Fine | Tilt Fine | Tilt Fine | Pan Fine |
| 14 | Function | Function | Function | Tilt |
| 15 | RESET | RESET | RESET | Tilt Fine |
| 16 | Lamp control | Lamp control | Lamp control | Function |
| 17 | | Pan/Tilt Speed | Pan/Tilt Speed | RESET |
| 18 | | | Color Functions | Lamp control |
| 19 | | | | Pan/Tilt Speed |
| 20 | | | | Color Functions |

13. Channel Data

4 Modes 16 - 17 - 18 -20

16 Ch

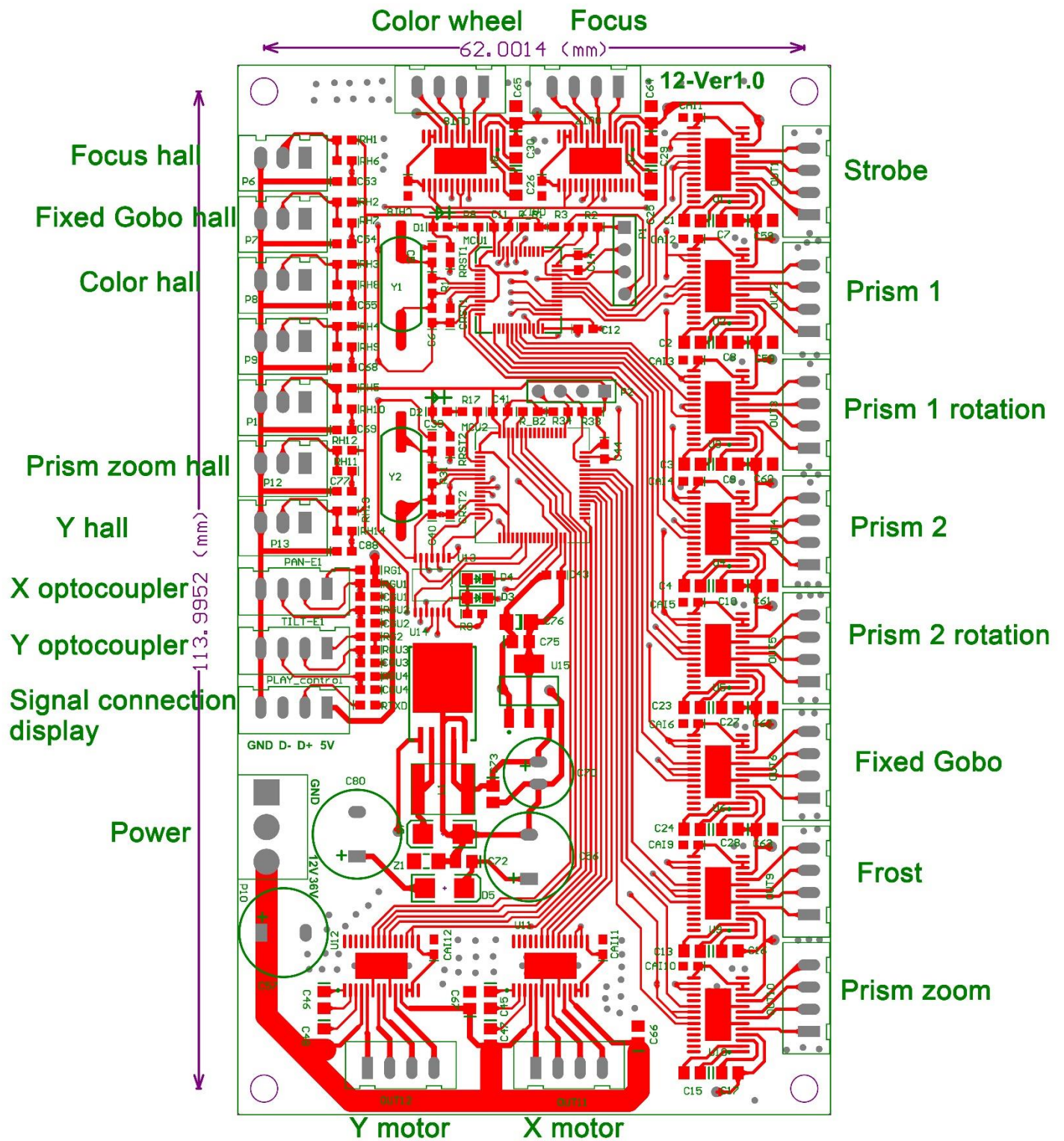
| Channel | Function | Value | Description |
|-------------|-------------------------|-------------|-------------|
| 1 | Colour Wheel | 0 --> 4 | Open |
| | | 5 --> 8 | Open + 1 |
| | | 9 --> 12 | Color 1 |
| | | 13 --> 17 | 1 + 2 |
| | | 18 --> 21 | Color 2 |
| | | 22 --> 25 | 2 + 3 |
| | | 26 --> 29 | Color 3 |
| | | 30 --> 34 | 3 + 4 |
| | | 35 --> 38 | Color 4 |
| | | 39 --> 42 | 4 + 5 |
| | | 43 --> 46 | Color 5 |
| | | 47 --> 51 | 5 + 6 |
| | | 52 --> 55 | Color 6 |
| | | 56 --> 59 | 6 + 7 |
| | | 60 --> 63 | Color 7 |
| | | 64 --> 68 | 7 + 8 |
| | | 69 --> 72 | Color 8 |
| | | 73 --> 76 | 8 + 9 |
| | | 77 --> 81 | Color 9 |
| | | 82 --> 85 | 9 + 10 |
| | | 86 --> 89 | Color 10 |
| | | 90 --> 93 | 10 + 11 |
| | | 94 --> 98 | Color 11 |
| | | 99 --> 102 | 11 + 12 |
| | | 103 --> 106 | Color 12 |
| | | 107 --> 110 | 12 + 13 |
| | | 111 --> 115 | Color 13 |
| | | 116 --> 119 | 13 + 14 |
| 120 --> 123 | Color 14 | | |
| 124 --> 127 | 14 + Open | | |
| 128 --> 187 | Fast to Slow CW Scroll | | |
| 188 --> 195 | No Scroll | | |
| 196 --> 255 | Slow to Fast CCW Scroll | | |

| | | | |
|-------------|----------------------------|-------------|--------------------------------|
| 2 | Strobe | 0 --> 1 | Closed |
| | | 2 --> 7 | Open |
| | | 8 --> 63 | Slow to Fast Strobe |
| | | 64 --> 71 | Open |
| | | 72 --> 127 | Slow to Fast Pulsation |
| | | 128 --> 135 | Open |
| | | 136 --> 160 | Slow to Fast Fade Strobe |
| | | 161 --> 166 | Open |
| | | 167 --> 191 | Slow to Fast Lightening Strobe |
| | | 192 --> 199 | Open |
| | | 200 --> 209 | Strobe Mode 1 |
| | | 210 --> 219 | Strobe Mode 2 |
| | | 220 --> 249 | Slow to Fast Random Strobe |
| | | 250 --> 255 | Open |
| 3 | Dimmer | 0 --> 255 | 0% to 100% Dimmer |
| 4 | Gobo Wheel | 0 | Open |
| | | 5 | Gobo 1 |
| | | 10 | Gobo 2 |
| | | 15 | Gobo 3 |
| | | 18 | Gobo 4 |
| | | 20 | Gobo 5 |
| | | 25 | Gobo 6 |
| | | 30 | Gobo 7 |
| | | 35 | Gobo 8 |
| | | 38 | Gobo 9 |
| | | 40 | Gobo 10 |
| | | 45 | Gobo 11 |
| | | 50 | Gobo 12 |
| | | 55 | Gobo 13 |
| | | 58 | Gobo 14 |
| | | 60 | Gobo 15 |
| | | 65 | Gobo 16 |
| | | 68 --> 112 | Fast to Slow CW Scroll |
| | | 113 --> 114 | Stop |
| | | 115 --> 159 | Slow to Fast CCW Rotation |
| | | 160 --> 166 | Slow to Fast Gobo 2 Shake |
| | | 167 --> 172 | Slow to Fast Gobo 3 Shake |
| | | 173 --> 179 | Slow to Fast Gobo 4 Shake |
| | | 180 --> 185 | Slow to Fast Gobo 5 Shake |
| | | 186 --> 191 | Slow to Fast Gobo 6 Shake |
| | | 192 --> 198 | Slow to Fast Gobo 7 Shake |
| | | 199 --> 204 | Slow to Fast Gobo 8 Shake |
| | | 205 --> 211 | Slow to Fast Gobo 9 Shake |
| | | 212 --> 217 | Slow to Fast Gobo 10 Shake |
| | | 218 --> 223 | Slow to Fast Gobo 11 Shake |
| 224 --> 230 | Slow to Fast Gobo 12 Shake | | |
| 231 --> 236 | Slow to Fast Gobo 13 Shake | | |
| 237 --> 243 | Slow to Fast Gobo 14 Shake | | |
| 244 --> 249 | Slow to Fast Gobo 15 Shake | | |
| 250 --> 255 | Slow to Fast Gobo 16 Shake | | |

| | | | |
|----|------------------|-------------|---------------------------|
| 5 | Prism 1 | 0 --> 127 | Safe |
| | | 128 --> 255 | Prism Inserted |
| 6 | Prism 1 Rotation | 0 --> 127 | Index |
| | | 128 --> 187 | Fast to Slow CW Rotation |
| | | 189 --> 197 | Stop |
| | | 198 --> 255 | Slow to Fast CCW Rotation |
| 7 | Prism 1 Zoom | 0 --> 127 | Prism Zoom out |
| | | 128 --> 255 | Prism Zoom in |
| 8 | Frost | 0 --> 255 | 0% to 100% Frost |
| 9 | Focus | 0 --> 255 | 0% to 100% Focus |
| 10 | Pan | 0 --> 255 | 540° Pan |
| 11 | Pan Fine | 0 --> 255 | Pan Fine |
| 12 | Tilt | 0 --> 255 | 270° Tilt |
| 13 | Tilt Fine | 0 --> 255 | Tilt Fine |
| 14 | Macro | 0 --> 149 | Empty |
| | | 150 --> 159 | Built-in Program 1 |
| | | 160 --> 169 | Built-in Program 2 |
| | | 170 --> 179 | Testing Program |
| | | 180 --> 255 | Empty |
| 15 | Reset | 0 --> 69 | Empty |
| | | 70 --> 79 | Effect Reset |
| | | 80 --> 89 | Pan/Tilt Reset |
| | | 90 --> 99 | Complete Reset |
| | | 100 --> 255 | Empty |
| 16 | Lamp Control | 0 --> 49 | Empty |
| | | 50 --> 59 | Lamp On |
| | | 60 --> 69 | Lamp Off |
| | | 70 --> 255 | Empty |

For the rest of the DMX chart, visit the below link <https://www.cyclopslighting.com/wp-content/uploads/2018/10/Aquaray-400-B-DMX-Chart.pdf>

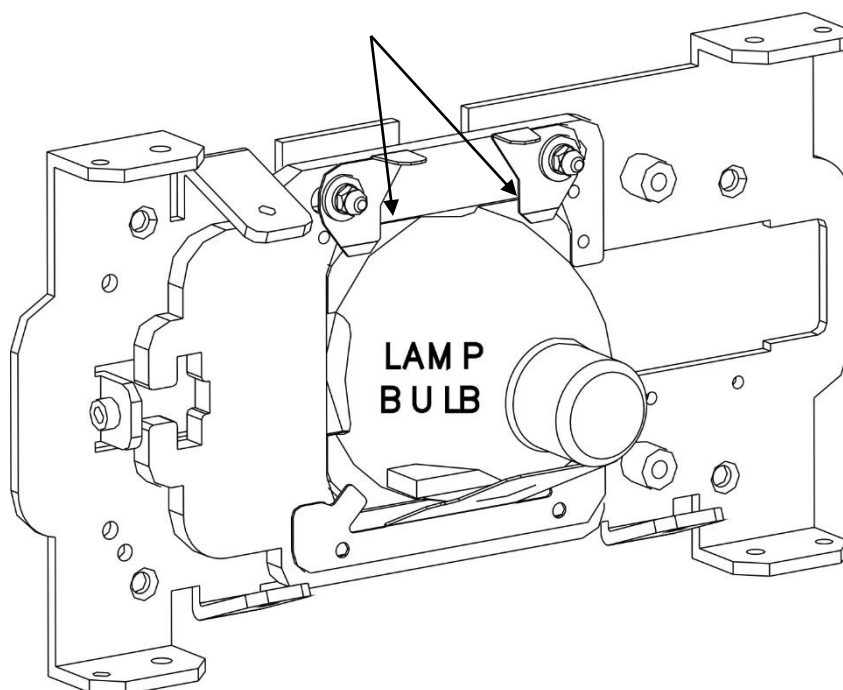
14. Drive Board Illustration



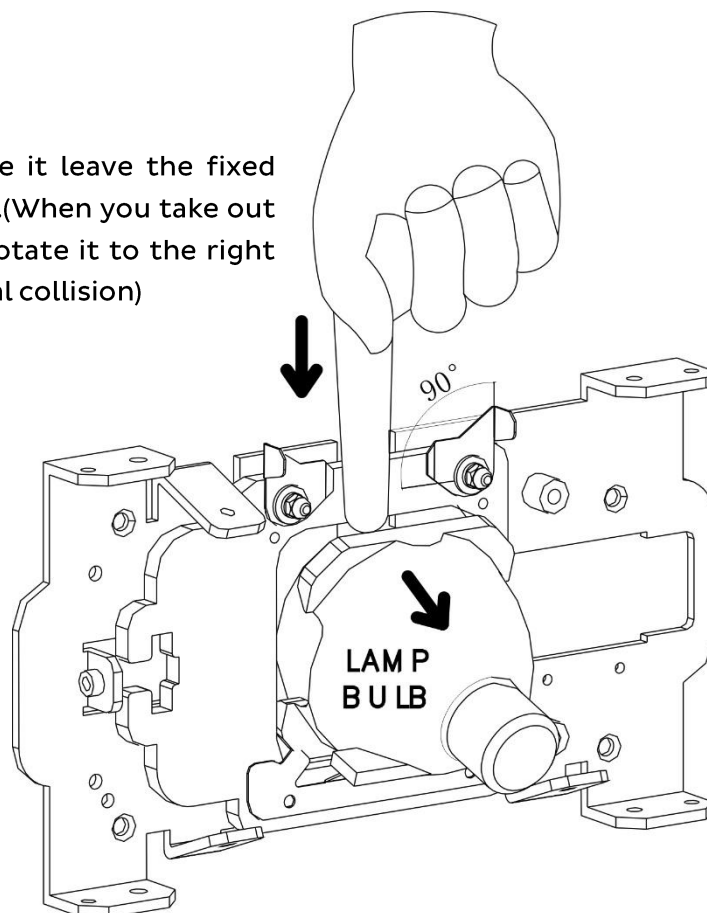
15.Lamp Changing Method

① Theory

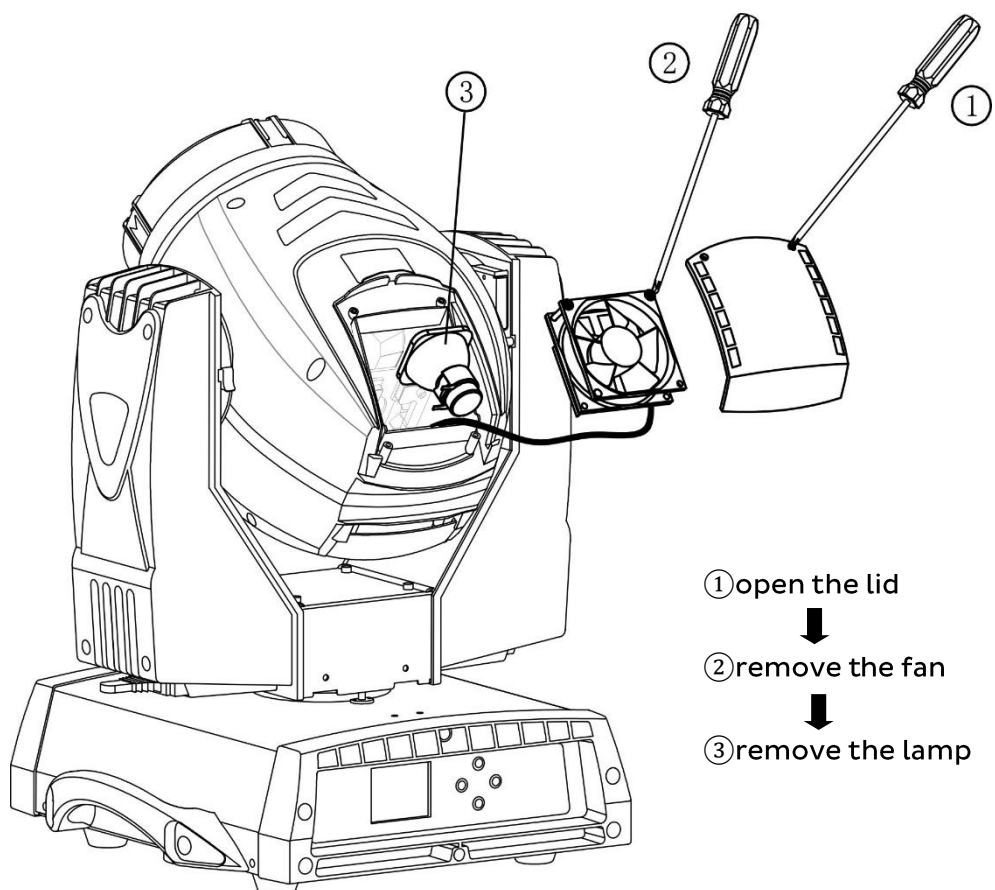
Rotate lock pieces 90°before open the bulb



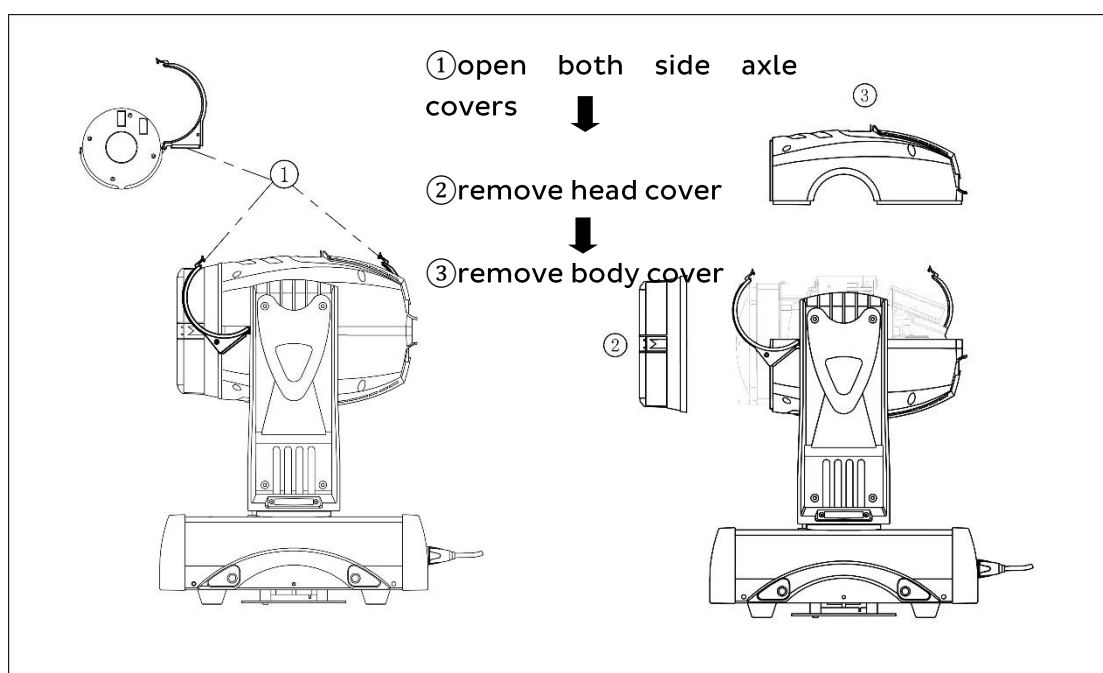
Press the bulb to make it leave the fixed position then tilt it out.(When you take out the bulb you need to rotate it to the right Angle to avoid the metal collision)



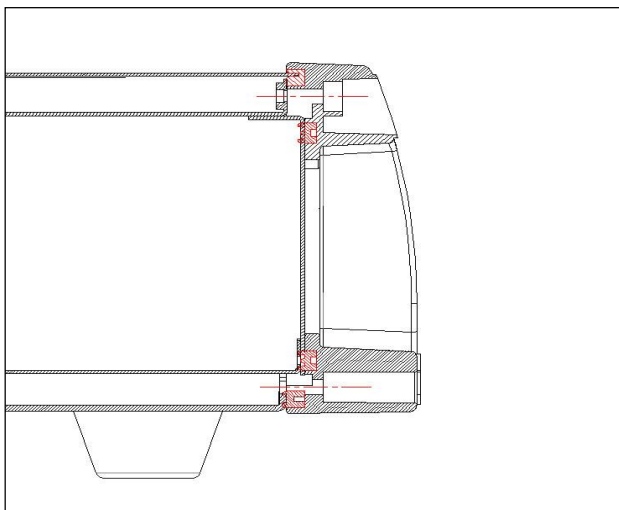
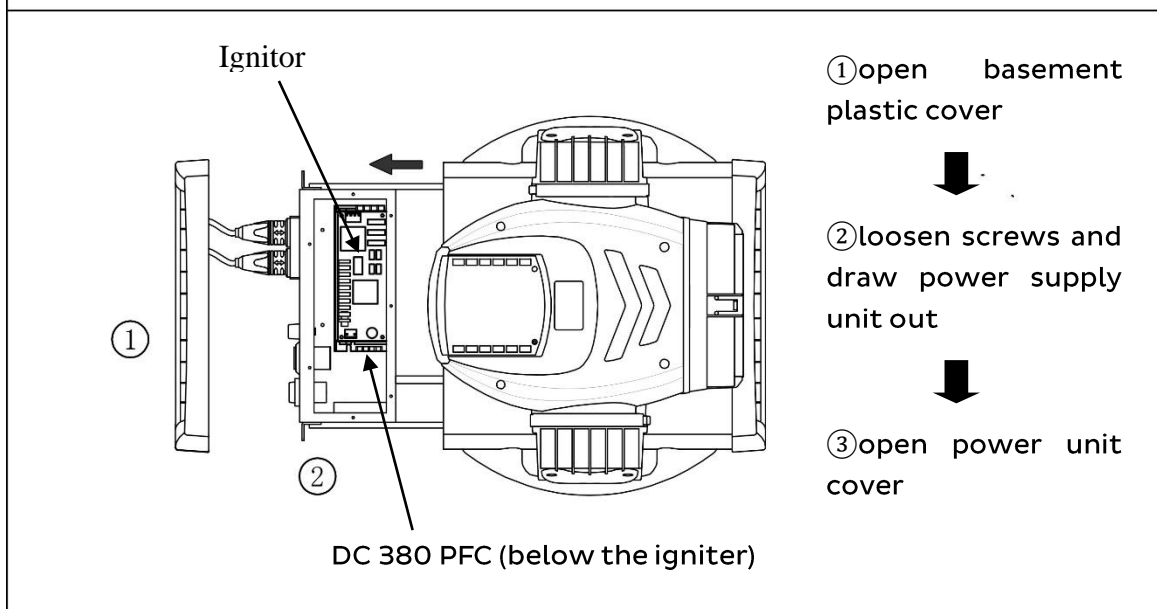
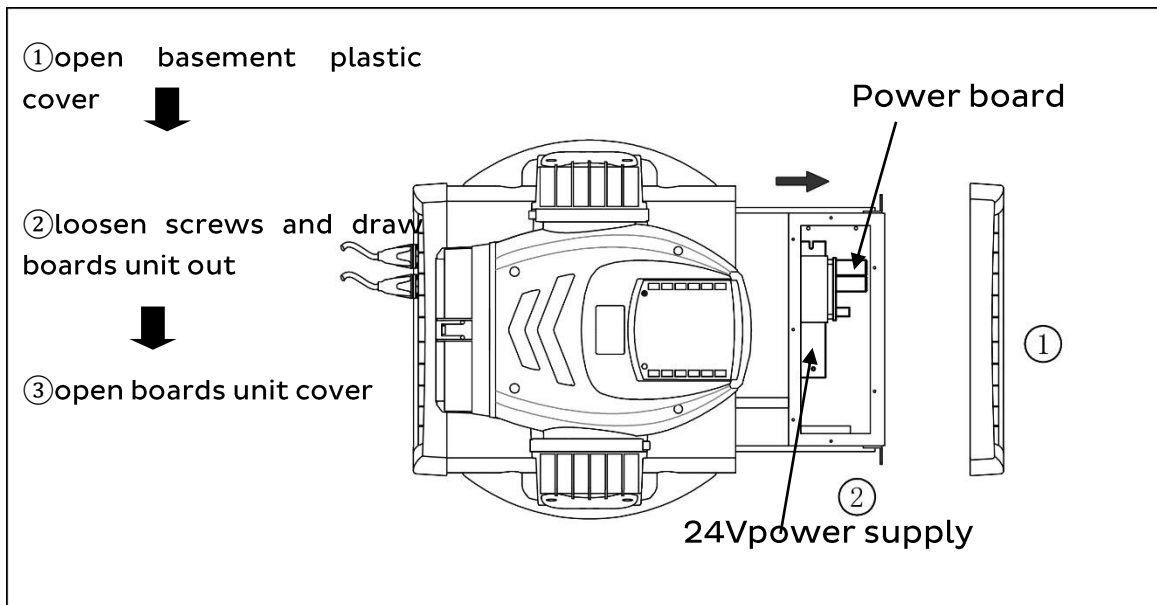
② Changing method



16. Body Covers Disassembling Method



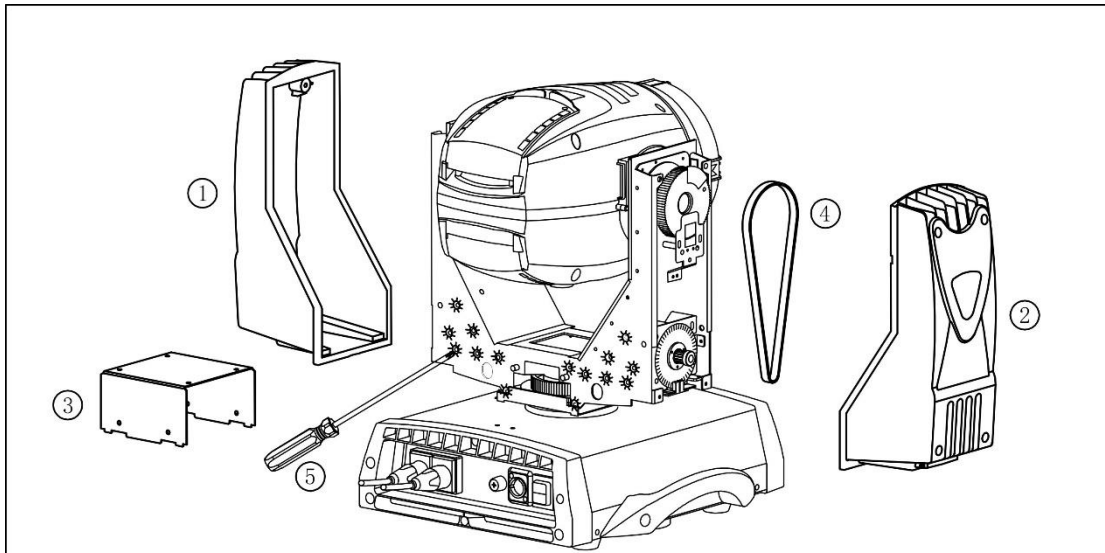
17.Base part Info and Installation




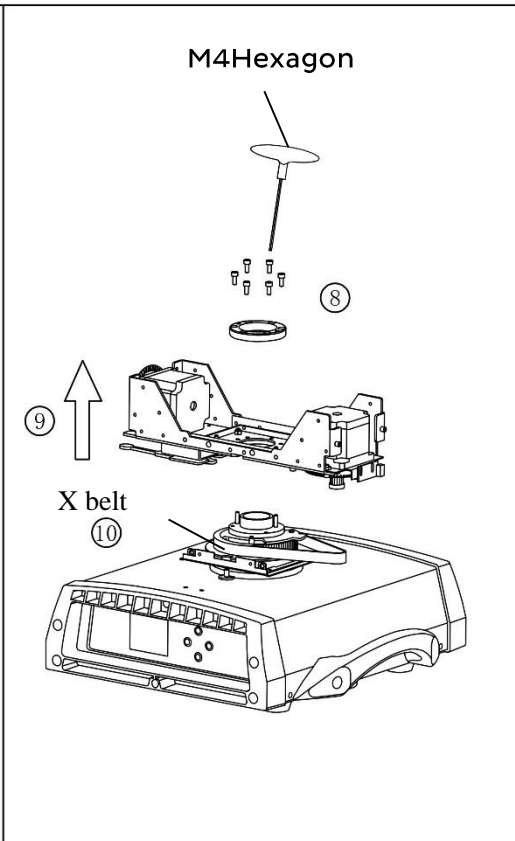
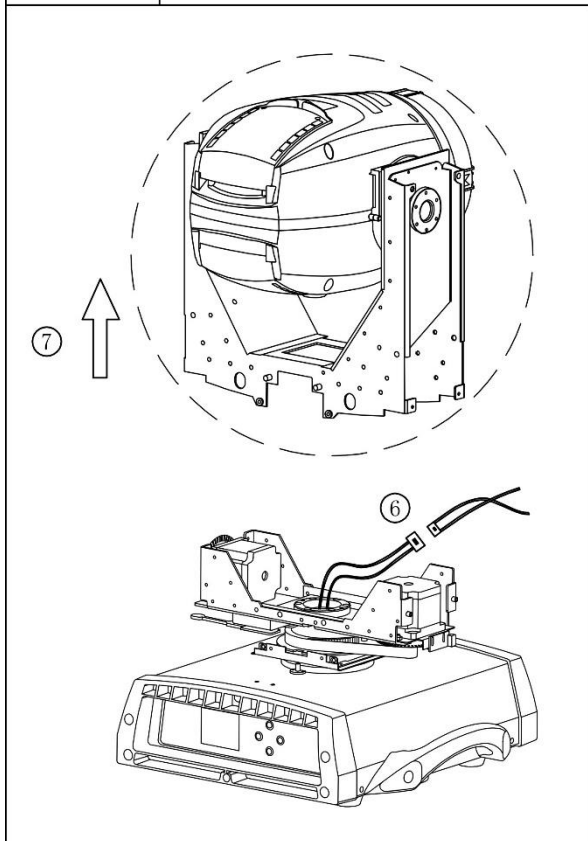
▲ After repairing the base part, put the cabinet cover and push it back and fix it with the four corner screws.

Fix the base steel right into the rubber seal strip before pushing back the plastic base cover, then tighten the screws of the plastic cover.

18.X Belt Changing Method



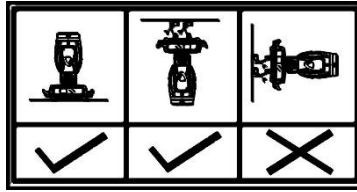
 -Screw



- ①.② Open the arm covers ③ remove the center cover ④ remove the y belt
 ⑤ remove the side screws ⑥ unplug the wire connector ⑦ remove the light arm
 and body ⑧ remove the hexagon screws ⑨ remove the beam units ⑩ change x belt

19.Attention Items

- ①.Check the light seal situation and make sure it's not damaged before operating it.
- ②.The device can be installed normally and upside-down.



- ③.The device is only up to IP 54 waterproof standard without fully sealing structure, therefore do not immerse it into water .Any damage caused by the incorrect operation won't be covered by warranty.
- ④.Do not touch the device when using it in rain .Make sure there's not electric leakage or touch it with insulating gloves in case of electric shock.

20.Common malfunctions

- ①.The bulb cannot be lit or turned off Less than a minute.
 - A、 Check the lamp dimming and strobe channel is open.
 - B、 When the lamp reset is complete, check that the entire display is flickering and enter the menu if it is flickering. Information query-Error message-Fan information. Check the lamp fan information is normal. The fan value is 0 when the lamp is off, after the lamp is lit for more than 45 seconds, the fan starts working. Fan 1 is not less than 2000, Fan 2 is not less than 4200. If the display shows ER is the fan error, re-plug the fan terminal or replace the fan. Fan 1 is light body 3-wires fan, fan 2 is blower.
 - C、 Check the lamp power supply PFC input voltage is 220V (If there is no power is not entered in, check the terminal wiring is loose).The lamp ballast normal input voltage is 380V DC.
 - D、 Check the lamp for damage.
 - E、 Check that the fan of the base drawer (XLR panel side) is working properly.
- ②.The beam becomes dim
 - A、 The lifespan has expire, change a new one.
 - B、 Check and make sure the optical parts is clean.
 - C、 Check whether the frost function is intervention or semi-intervention.
 - D、 There is dust on the bulb .Keep maintenance of the bulb and other parts inside the light regularly.
- ③.The motors cannot work
 - A.Check the power on the PCB is suitable voltage (24V), make sure the fuse has not been burnout.
 - B.Check if the motor cable is broken and the motor coil is loose.
 - C.Check the fastening flange screw is loose or not ,stuck or not
 - D.Check plugs and IC on the PCB is loose , bad contact ,worn out or not
 - E.Motor or PCB has been broken.

- ④. **Beam lights cannot be controlled .the DMX shown on the LCD is flickering**
A. DMX has not been set, or the beam light has not get the signal
B. The lamp signal line is not connected
C. The “+”“-” of signal wire is pick up inversely
D. The signal line is too long and lamp is too many, the signal decreases too much
E. Peripheral equipment signal interference or control equipment damage, the control protocol is not compatible
F. Run the self-running program
- ⑤. **The image of projection is halo**
Check whether electronic focusing channel numerical projection distance right now
- ⑥. **Moving light work intermittently**
Check it refer to solution B and E of the first fault.
- ⑦. **Moving light cannot start**
Check the voltage is normal (220V), the power switch is open, whether the fuse is blown, the power supply in the base drawer (LCD screen side) is DC36/24V.