

COSCULATI



Classic electric exterior spotlight

Installation & Operation Instructions

TO AVOID THE RISK OF ACCIDENTS OR DAMAGE TO THIS PRODUCT, IT IS ESSENTIAL TO READ THESE INSTRUCTIONS THOROUGHLY BEFORE THIS PRODUCT IS INSTALLED AND USED.

13.224.01-02 / 13.225.01-02

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Product Highlights

- ★ Certified in compliance with all models comply with EN/BSEN IEC55015+ IEC61547(CE); EN301 489-1/-3(RF); EN300 220-2(RF); EN(BSEN)62368-1;EN(BSEN)62479(Safety); FCC Part 15 Subpart B & C+ANSI C63.
- ★ Aluminum body with corrosion-resistant coating.
- ★ Powered by 35W HID(Xenon) or 100W Halogen bulb.
- ★ Performance: HID(Xenon) 3,200 Lumens (315,000CD); or Halogen 2,500 Lumens (180,000CD) or HID.
- ★ 355° two speed horizontal rotation, 50° vertical range.
- ★ Digital Remote Controller signal reliable and resistant to interference. Pairing function for multiple controllers to the Searchlight. Up to 40M working range.
- ★ Uses telephone line. Simple connection compared to traditional wire harness, and can connect 2 Joystick Controller with adaptor.
- ★ Completely sealed and waterproof, IP67.
- ★ 12 Volts DC input power for 13.225.01 / 13.224.01.
- ★ 24 Volts DC input power for 13.225.02 / 13.224.02.

Specifications

Material	Aluminum-Alloy body, glass front cover
Styling	Streamline
Light Source	HID light bulb (35 Watts); Halogen H4 light bulb (100/90 Watts)
Light Coverage	HID (Xenon): 0.25 Lux @ 1122 M; Halogen: 0.25 Lux @ 849 m
Light Mode	Searchlight
Rotation	355° horizontal (dual speed), 50° vertical, jam protection
Controller	Joystick or Remote Controller
Power Supply	12 VDC or 24VDC
Size L x W x H	21 x 20 x 25 (cm)
Weight	5.5 kg
Current Draw	12V version: HID@ 4 Amp (cold start 8 Amp); Halogen@ 8Amp 24V version: HID@ 2 Amp (cold start 4 Amp); Halogen@ 4Amp
Fuse Application	10 Amp (5 Amp for 24V DC version). See Electrical Wiring section.

Installation

Searchlight Installation

1. The Searchlight should be installed on flat, level, and non-metal surface.
2. Make use of the foam gasket to mark mounting holes and wiring access (1 inch or 25.4 mm) on flat surface, see Fig. 1 below.
3. Route the power cable and signal lines through wiring access of the gasket and flat surface.
4. Secure deck mount by four (4) self-tapping screws of 1/4 inch (6 mm), or bolts and nuts.
5. See Fig. 1 below.

! Remember to install the foam gasket, and ensure proper sealing.

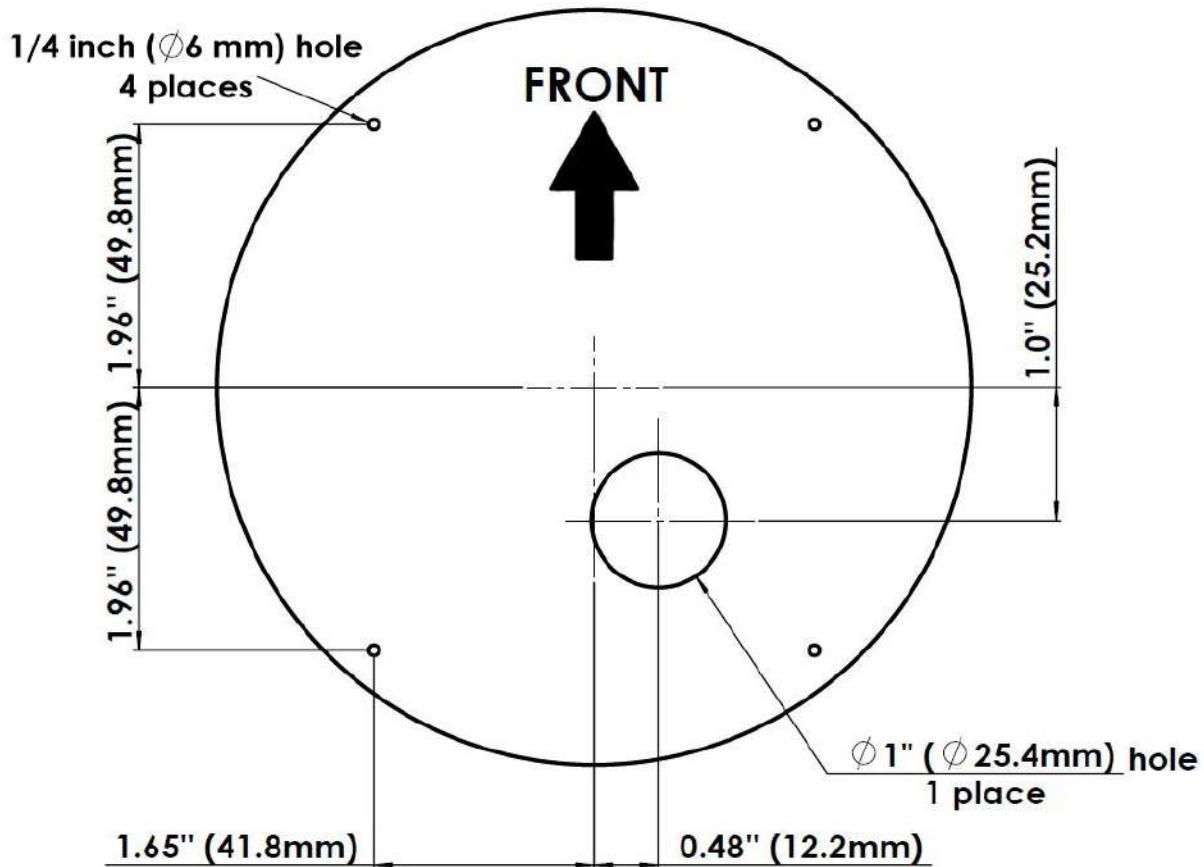


Fig. 1 Base Installation Template

! Do not mount on metal surface to prevent Remote Controller malfunction.

! Provide at least 1-1/4inch (32 mm) installation clearance underneath the mounting surface to allow reception of remote signal. Remote Controller may be malfunction if clearance is insufficient. See Fig. 2 below.

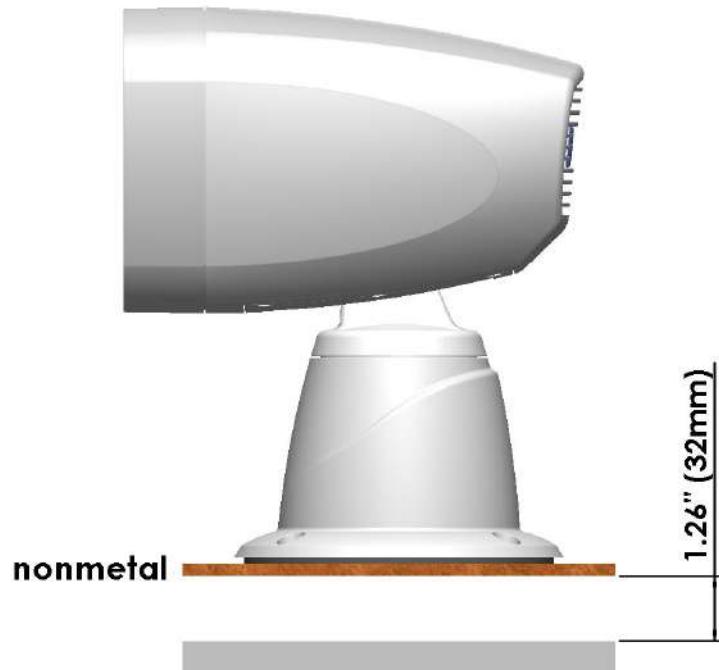


Fig. 2 Installation Clearance Space

Joystick Controller Panel Installation (for 13.225.49 / 13.226.49)

1. The Joystick Controller panel should be installed on flat surface at a dry location.
2. Make use of the foam gasket to mark mounting holes and rectangular hole (3.7 inch by 2.3 inch or 94mm by 58mm) on flat surface. Drill rectangular hole position for installation as Fig. 3.

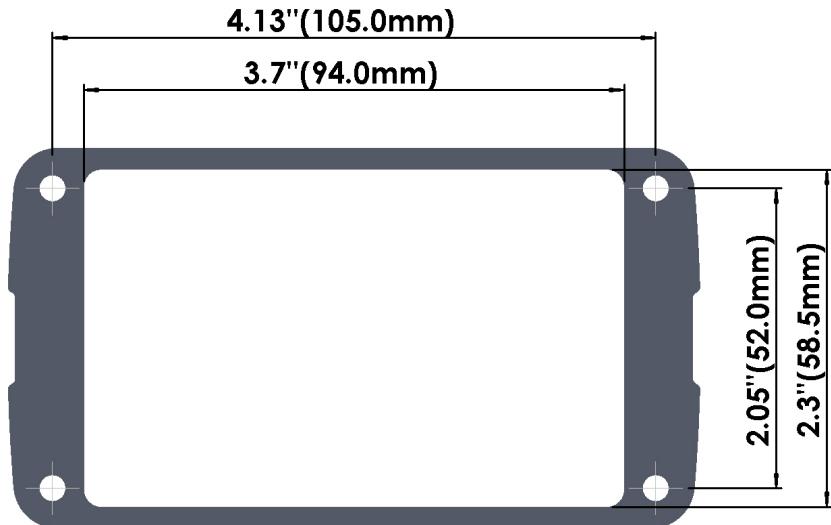


Fig. 3 Joystick Controller Gasket Template

3. Disassemble the Joystick Controller as following diagram, put the harness through the gasket, plastic cover and connect to PCB socket, and then install all up with screws, and then put back to the drilled rectangular hole and secure with four (4) #8 (M4) self-tapping screws or bolts and nuts. Finally put back control panel on the bezel.

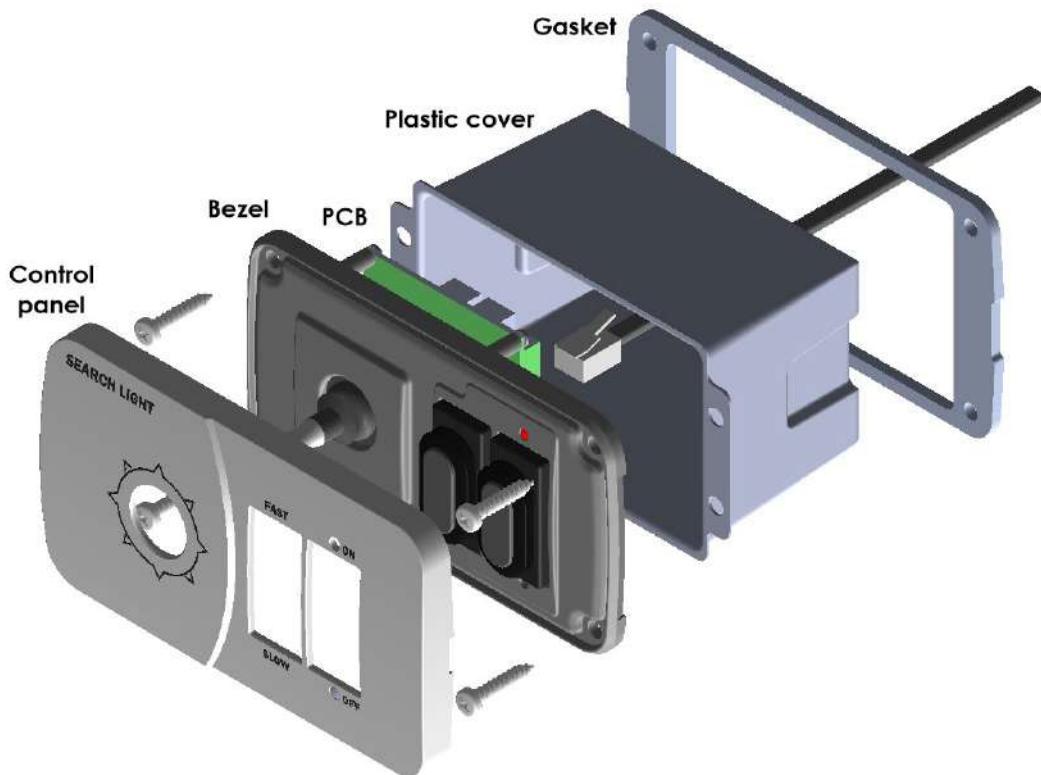


Fig. 4 Installation Layers of Joystick Controller

* Control panel would be different in HID or Halogen version, installation method is the same.

! Provide water and weather protection for the location where Joystick Controller is installed.

Remote Controller Bracket Installation (for 13.225.50 / 13.226.50)

1. Take off mounting bracket from the Remote Controller. Secure mounting bracket on selected location with the two (2) M4 12mm length self-tapping screws that come with the product. See Fig.5.

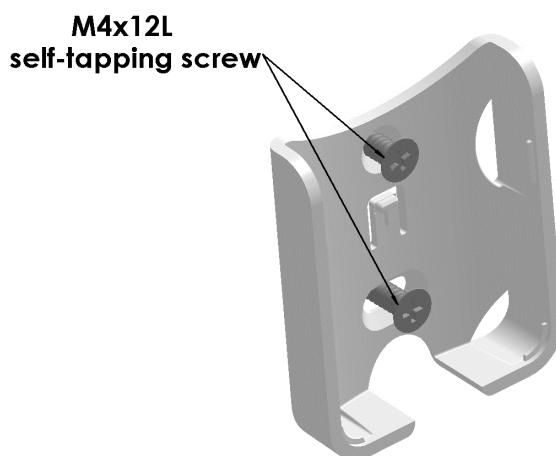


Fig. 5 Installation of Remote Controller mounting bracket

2. Put back the Remote Controller to mounting bracket.

! Provide water and weather protection for the location where Remote Controller bracket is installed.

Electrical Wiring

1. Provide DC12 Volt input power for 13.225.01 / 13.224.01, and DC 24 Volt input power for 13.225.02 / 13.224.02. See Fig. 6 below.
2. Protect input power positive (+) terminal with 8 A fuse or circuit breaker for DC 12 Volt version, and use 4 A fuse for DC 24 Volt version.
3. Use 12-gauge power cable for wiring distance not more than 30 ft (9 m), and use 10-gauge power cable for longer wiring distance.
4. Joystick version, link to Joystick Controller panel by telephone line. Remote version needs no additional wiring.

! The power switch on Joystick Controller panel should be set to "POWER OFF" before supplying power to the product.

! Use correct product for your power source (DC 12 or 24 Volt). Wrong voltage will damage product and may cause safety hazard.

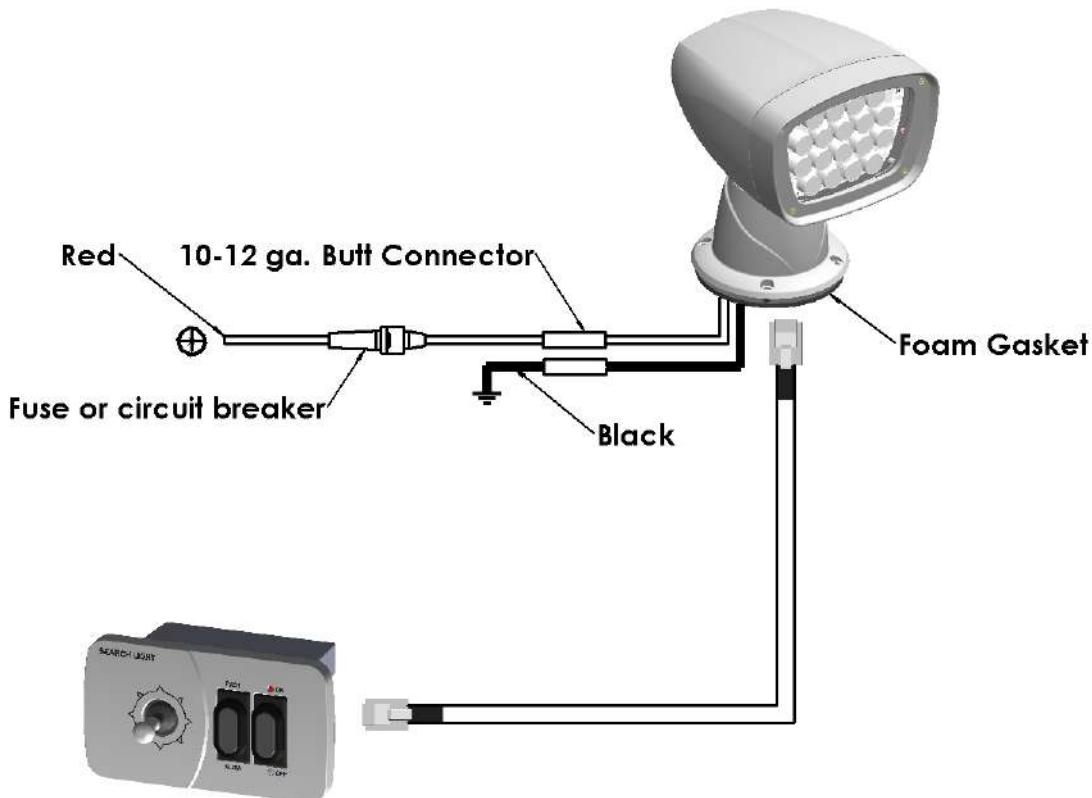


Fig. 6 Wiring Diagram of Joystick Controller and Searchlight

* Control panel would be different in HID or Halogen version, installation method is the same.

Operation

Joystick Controller (Model 13.226.49 for 13.224.01 / 13.224.02)

1. The power switch is to turn on/off the Searchlight.
2. Control rotation and tilt function by the joystick.
3. The speed switch is for horizontal rotation only, there are two speeds(fast/slow) for use.
4. See Fig. 7 for Joystick Controller panel instruction.

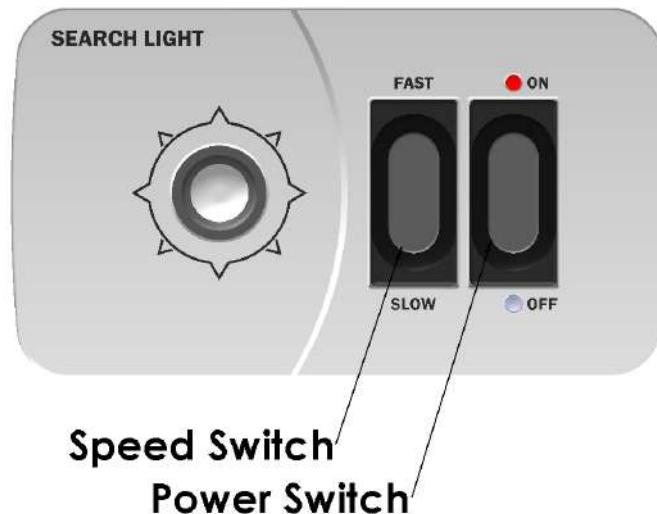


Fig. 7 Joystick Controller Panel Instruction (Model 13.226.49)

Joystick Controller (Model 13.225.49 for 13.225.01 / 13.225.02)

1. The power switch is to turn on/off the Searchlight and also for spot/ flood function. Spot/Flood switch is for different lighting focus, turn up for SPOT, turn down for FLOOD and OFF in the center.
2. Control rotation and tilt function by the joystick.
3. The speed switch is for horizontal rotation only, there are two speeds(fast/slow) for use.
4. See Fig. 8 for Joystick Controller panel instruction.

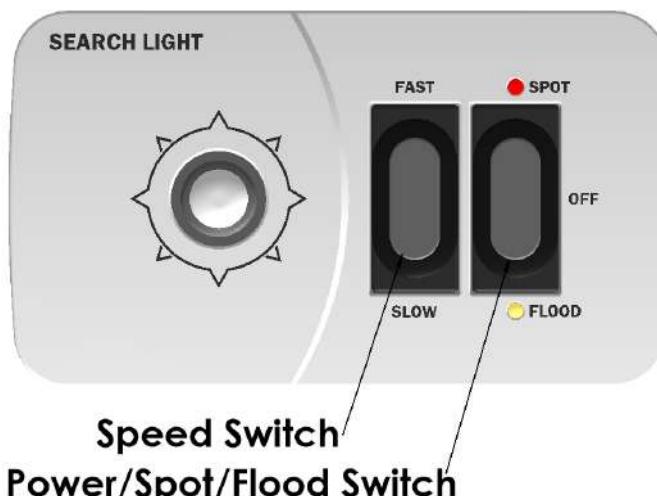


Fig. 8 Joystick Controller Panel Instruction (Model 13.225.49)

Joystick Controller Extension (Optional Accessories)

For extension purpose, please purchase 13.225.31 – 34.5Ft/10.5M wiring harness set.

For dual operation purpose, please purchase 13.227.51 – 2 Port adapter with 15Ft/4.5M harness set.

Remote Controller (Model 13.226.50 for 13.224.01 / 13.224.02)

1. Press power button to turn on/off the Searchlight.
2. Press white dot button to control rotation and tilt of the Searchlight.
3. The speed button is for horizontal rotation only, there are two speeds(fast/slow) for use.
4. See Fig. 9 for Remote Controller panel instruction.



Fig. 9 Remote Controller Panel Instruction (Model 13.226.50)

Remote Controller (Model 13.225.50 for 13.225.01 / 13.225.02)

5. Press power button to turn on/off the Searchlight.
6. Press white dot button to control rotation and tilt of the Searchlight.
7. The speed button is for horizontal rotation only, there are two speeds(fast/slow) for use.
8. Spot/Flood switch is for different lighting focus, press button to switch spot or flood function.
9. See Fig. 10 for Remote Controller panel instruction.



Fig. 10 Remote Controller Panel Instruction (Model 13.225.50)

Remote Controller Setup and Pairing (For setting up new or multiple Remote Controllers)

The Searchlight can be operated by one or multiple Remote Controllers. Pairing procedures makes the Searchlight accept signals from a Remote Controller. Each Remote Controller has unique electronic signals and only works with a Searchlight after pairing has been done.

1. Check that the Remote Controller has battery installed.
2. When Searchlight is connected to power, it enters pairing mode allowing pairing with nearby Remote Controllers within appx. 3 meters for 10 minutes. If the Searchlight has been connected previously, you will need to disconnect it from the power source first and connect again (if the Searchlight is not connected to a switch, try turn the battery switch off and on again).
3. Bring Remote Controller near the Searchlight within appx. 3 meters. Press and hold the controller's power button for 5 seconds. The controller's LED indicator will flash and stay lit when pairing is done.
4. If pairing fails (LED indicator keeps flashing), please restart/reconnect the Searchlight to power and try repeating pairing process.
5. Searchlight will exit pairing mode automatically after about 10 minutes. Meanwhile it can be operated normally using the Remote Controller.

Caution

- !** Continuous operation for more than two (2) hours should be avoided. Longer continuous operation time may consume the light bulb quickly.
- !** **DO NOT** try to operate the product beyond angular range as it will damage the product.
- !** **DO NOT** press or hit the glass front cover.
- !** **DO NOT** look directly into the Searchlight while the product is in operation.
- !** **DO NOT** cover the light with any material, otherwise accidental activation of the product may result in fires.

Maintenance

How to conduct general care ...

1. Use diluted neutral cleanser for general cleaning.
- !** **Do not** use other chemicals or abrasives.
2. No need to provide additional lubrication.

How to replace or add Joystick Controllers ...

Please contact your dealer to purchase a new and same model Joystick Controller, and its accessories for connection to the Searchlight.

For extension purpose or dual operation purpose, please see **Joystick Controller Extension (Optional Accessories)**.

How to replace battery for Remote Controller ...

1. Remove Remote Controller from bracket.
2. Loosen the four (4) screws from back cover of Remote Controller.
3. Carefully dissemble Remote Controller, see details in Fig.11.
4. Replace a new 12V / A23 battery into the placement with correct poles.
5. Put back Remote Controller components and tighten screws.
6. Push any button to check if the LED indicator works and try to operate the Searchlight.

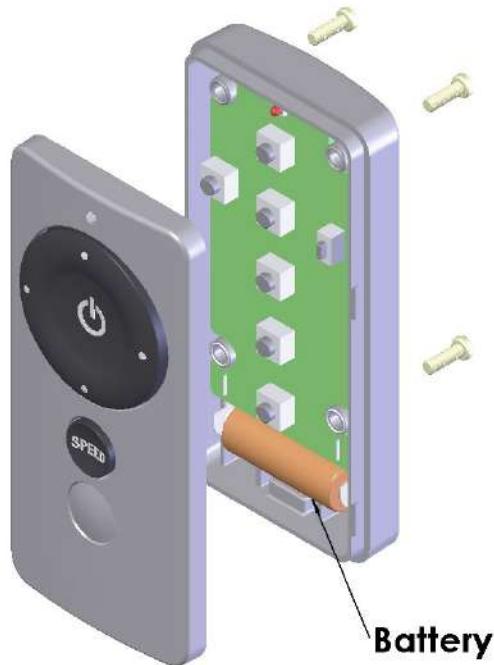


Fig. 11 Battery Location in Remote Controller

* Control panel would be different in HID or Halogen version, installation method is the same.

How to replace or add Remote Controllers ...

Please contact your dealer to purchase a new and same model Remote Controller, and make sure the battery is fully and process paring function (See Operation- Remote Controller Setup and Pairing).

How to replace bulb...

HID version:

Please contact your dealer and purchase a new HID bulb, PN: 13.224.32. Take out the original HID bulb from the light cover and lens by releasing 4 screws, remove the original HID bulb, and install new one to the lens, connect the bulb wiring to the ballast sockets and install lens back to the light front cover, and secure the waterproof o-ring and 4 screws back.

Halogen version:

Please contact your dealer and purchase a new halogen bulb, PN: 13.225.35 (12Volt) or 13.225.36 (24Volt). Take out the original halogen bulb from the light cover and lens by releasing 4 screws, remove the original bulb wiring and install new one to the lens, connect the bulb wiring, see Fig. 12, and install lens back to the light front cover and secure the waterproof o-ring and 4 screws back.

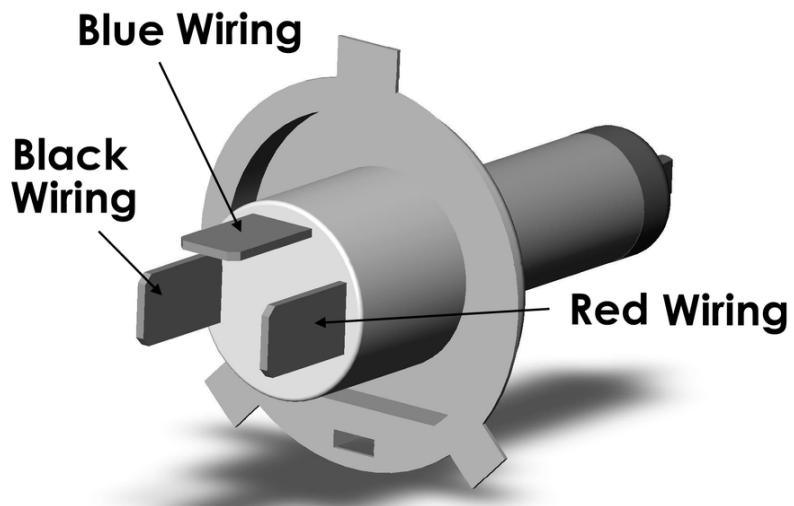


Fig. 12 Halogen bulb wiring connection

! It is recommended to use genuine parts which are fully tested and qualified. All the bulb specification, lighting performance and durability are well tested and secured as genuine parts.

Troubleshooting

Installation work and repairs to electrical components of this product **must** only be carried out by a suitably **qualified and competent** person in accordance with current **local and national safety regulations**. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorized work.

What to do if ...

... the bulb does not light.

- ⌚ Check light bulb if damaged, if so, replace light bulb.
- ⌚ Check if correct type of telephone line (RJ11 6P4C Pin 1-1 straight through) is used and connected.
- ⌚ Check if the wireless remote's battery is in good condition, see Fig.11.
- ⌚ If still does not work, return the Searchlight and control to dealer for further inspection.

... the Searchlight does not respond to Remote Controller.

- ⌚ Move to a location that is less than 15 meters away.
- ⌚ Move to a location that has no obstructing structure between Remote Controller and Searchlight.
- ⌚ Make sure the light is not mounted on any metal surface and there is sufficient clearance below.
- ⌚ Replace battery for Remote Controller. (See Fig. 11)
- ⌚ If still does not work, return the Searchlight and controller to dealer for further inspection.

... the Searchlight does not respond to any control.

- ⌚ Check voltage of inboard battery.
- ⌚ Check the fuse or circuit breaker that protects the Searchlight and Joystick Controller panel.
- ⌚ Carefully uninstall the Searchlight. Examine the electrical connections and wire harness.
- ⌚ Check if correct type of telephone line (RJ11 6P4C Pin 1-1 straight through) is used and connected.
- ⌚ Check if the Remote Controller's battery is in good condition.
- ⌚ If still does not work, return the Searchlight and controller to dealer for further inspection.

! **DO NOT** replace a blown fuse until the cause of Searchlight malfunction is identified and resolved.

! **DO NOT** replace a blown fuse with a fuse that takes higher current.

... the Searchlight halt during operation, or the Searchlight cannot rotate in certain direction.

- ⌚ Carefully uninstall the Searchlight and examine the electrical connections and wire harness.
- ⌚ Reconnect Joystick Controller; if not valid, replace new one.
- ⌚ Replace the Remote Controller battery; if not valid, replace new one and proceed paring function.
- ⌚ If still does not work, return the Searchlight and controller to dealer for further inspection.

For other problems, and when problem is not solved with the above tips ...

Return complete product with proper packaging to your dealer for further inspection. Include a description of the problem, your contact information, and proof of purchase if requesting warranty service.

Limited Warranty

For one (1) year from the date of original purchase, the manufacturer will, at its discretion, repair or replace for the original consumer, free of charge, any parts found defective in material or workmanship. All transportation charges under this warranty must be borne by the consumer.

Proof of purchase is required: A computerized register receipt is required. Hand-written receipts are not accepted for warranty proof of purchase. In the absence of a receipt, warranty period will be calculated from date of manufacture printed or stamped on the product.

There is no other expressed warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase. This is the exclusive remedy and consequential damages are excluded where permitted by law.

This warranty does not apply if the product has been damaged by accident or misuse, or as a result of service or modification performed by an unauthorized factory. Except as otherwise expressly stated in the previous paragraph, the company makes no representation or warranty of any kind, express or implied, as to merchantability, fitness for a particular purpose, or any other matter with respect to this product. The company shall not be liable for any consequential loss to life safety and property if it's due to user's failure in following this manual to install and use the product.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

NOTE:

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