
Installation & Operation Instructions



Deluxe Spot & Flood Light Model 10590SF/10590SF24

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.

EN Edition
Feb 2016

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Product Highlights

- ✧ Certified in compliance with IEC 60598-2-5:1998 (safety), EN 55015 + EN 61547 (CE), EN 301 489-1/-3 + EN 300 440-2 (RF), FCC Part 15B/15C (FCC), EN 60945 (marine), IP67.
- ✧ Two light modes: spot light and flood light.
- ✧ 350° two speed horizontal rotation, 60° vertical range.
- ✧ Can use multiple remote controls and add one joystick control panel.
- ✧ Digital remote control signal reliable and resistant to interference.
- ✧ Uses telephone line. Simple connection compared to traditional wire harness.
- ✧ 316 Stainless steel body.
- ✧ Completely waterproof – IP67.
- ✧ 12 Volts DC input power. **(24 Volts DC input power for 10590SF24)**

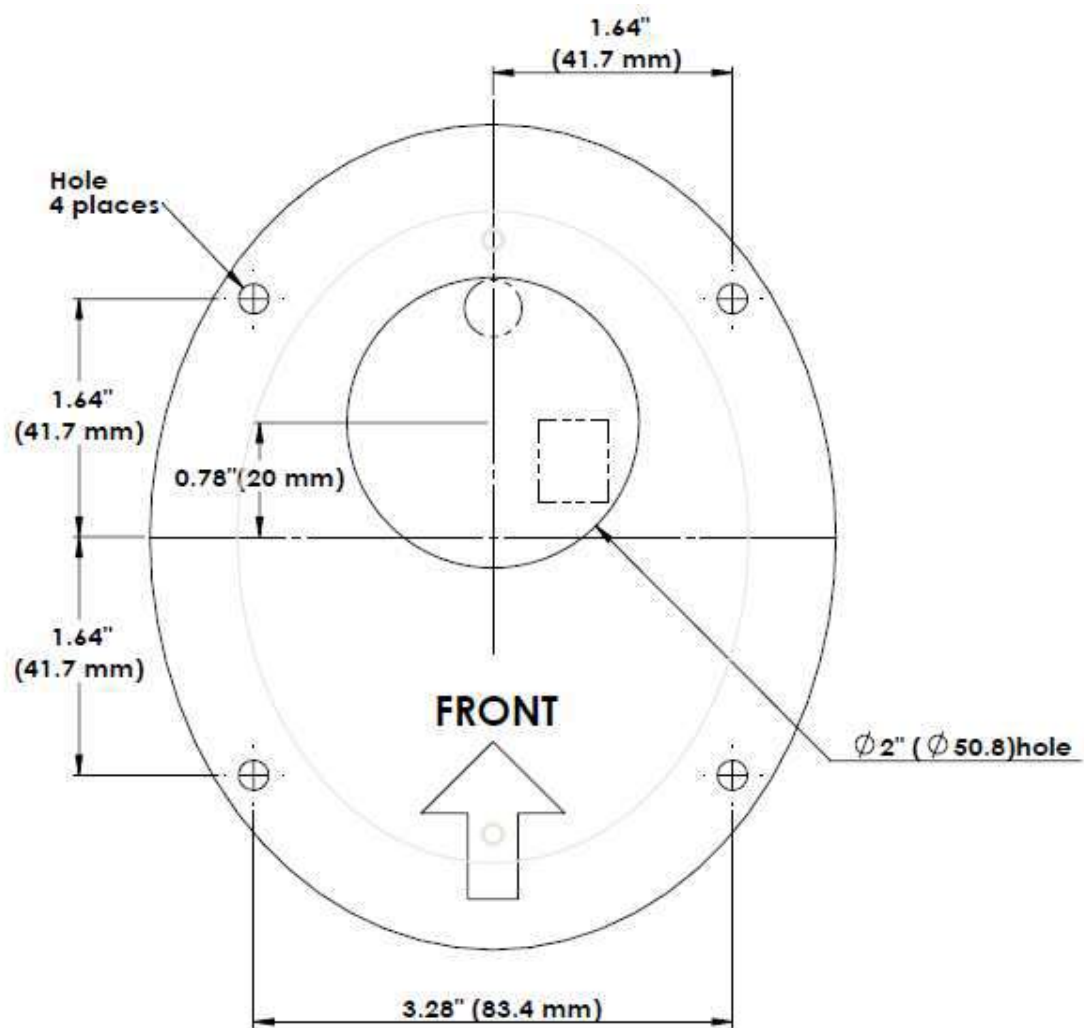
Specifications

Material	Stainless steel 316
Styling	Classic
Light Source	Halogen H4 light bulb (100/90 Watts)
Light Coverage	0.25 Lux @ 775 m
Light Mode	Spot light, flood light
Rotation	350° horizontal (dual speed), 60° vertical, jam protection
Power Cable	3ft
Power Supply	12 VDC (24V DC for 10590SF24)
Size L x W x H	212 x 120 x 252 (mm)
Weight	3.0 kg
Current Draw	7.8 Amp @12V ; 3.8 Amp for 10590SF24)

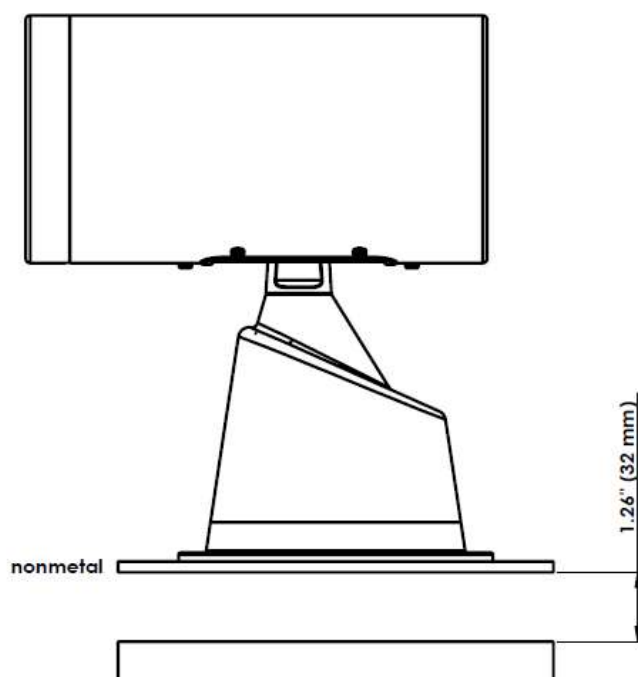
Installation

Spot Light Installation

1. The spot light 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 picture below. Make wiring access.
 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.
- !** Remember to install the foam gasket, and ensure proper sealing.

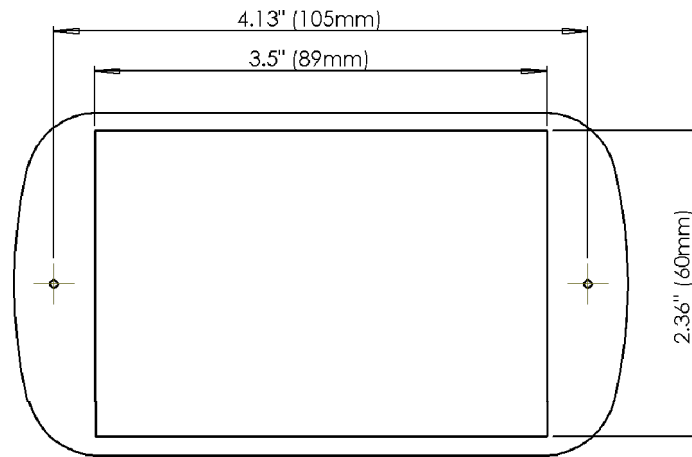


- ! Do not mount on metal surface; remote control will not work.
- ! Provide at least 1-1/4 inch (32 mm) clearance underneath the mounting surface to allow reception of remote signal. Remote control may not work if clearance is insufficient.



Joystick Control Panel (Optional) Installation

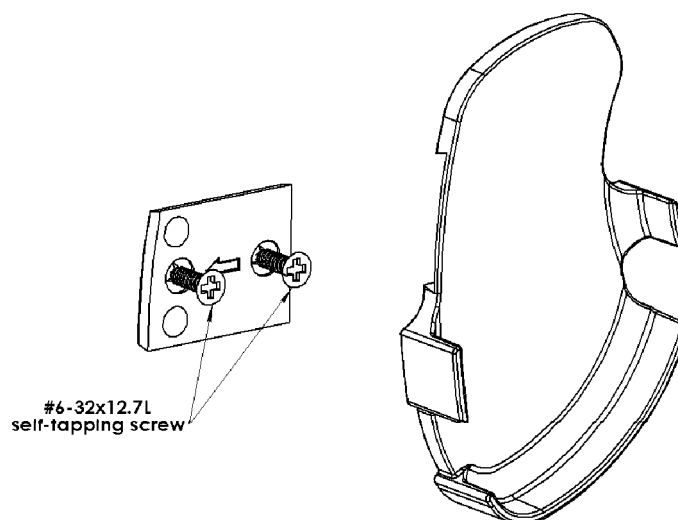
1. The joystick control panel should be installed on flat surface at a dry location.
2. Make use of the foam gasket to mark mounting holes and rectangular hole (3-1/2 by 2-3/8 inch or 89 by 60 mm) on flat surface. Make rectangular hole.
3. Take off top cover from joystick control panel, then fit control panel into the rectangular hole. Secure control panel with two (2) #8 (M4) self-tapping screws or bolts and nuts.
4. Put back top cover.



! Provide water and weather protection for the location where joystick control panel is installed.

Remote Control Bracket (Optional) Installation

1. Take off mounting plate from the back of bracket. Secure mounting plate on selected location with the two (2) self-tapping screws that come with the product.
2. Fit bracket to mounting plate as shown in below.

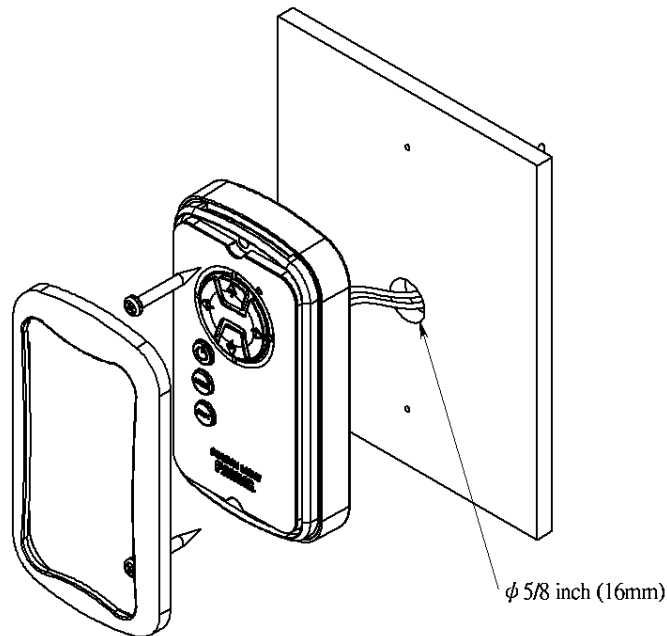


! Provide water and weather protection for the location where remote control bracket is installed.

Mounted Remote Control (Optional) Installation

(allows multiple controls for one light)

1. The mounted remote control should be installed on flat surface at a dry location.
2. Make wiring access of size 5/8 inch or 16 mm.
3. Remove the front cover then route the power cable through wiring access.
4. Secure mounted remote control by two (2) M4 self-tapping screws. Put back the front cover.

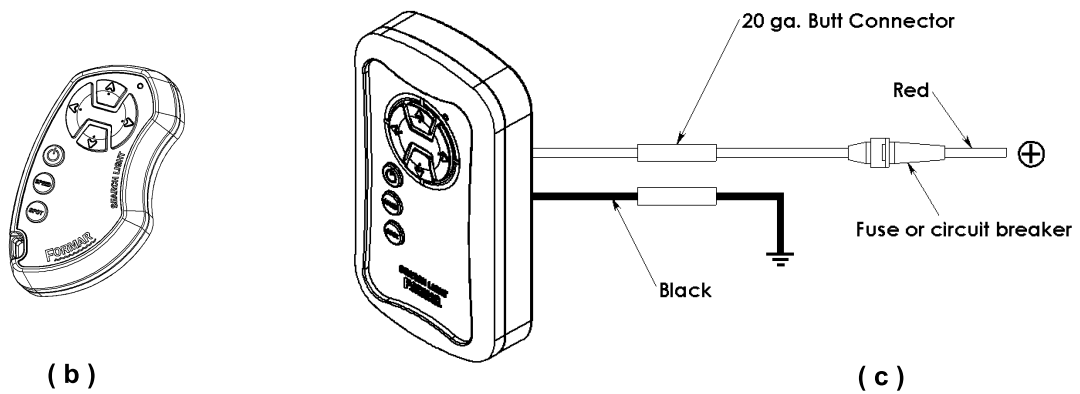
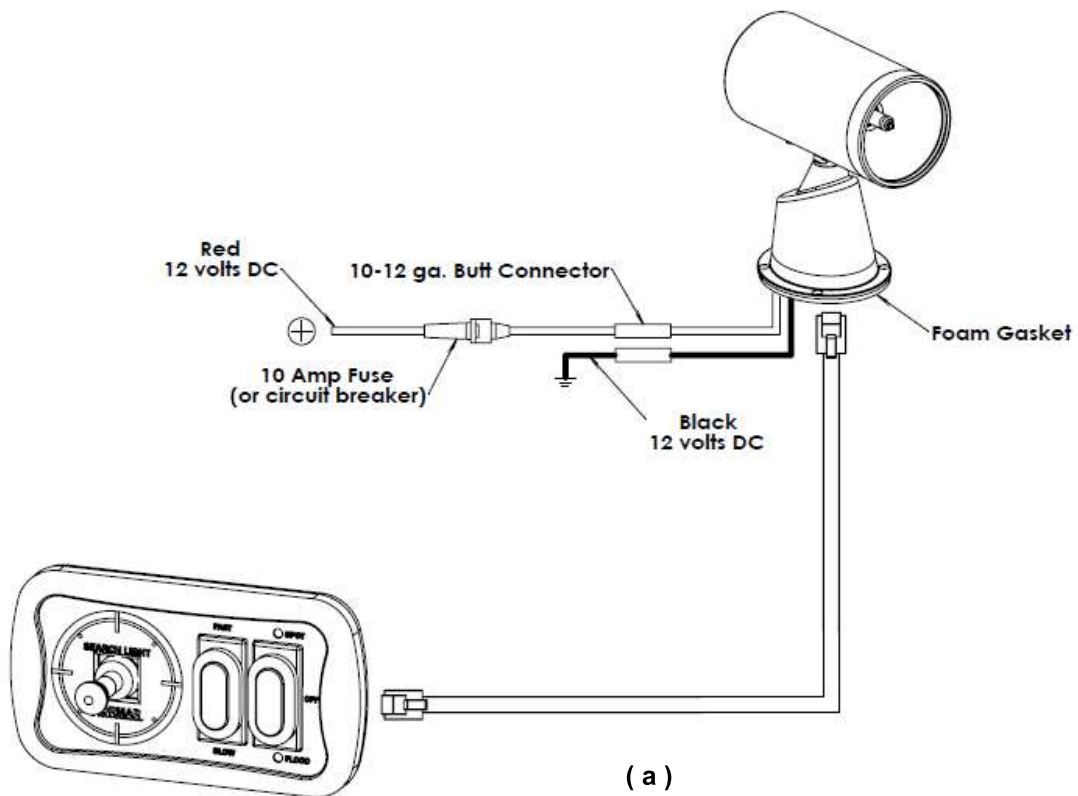


Electrical Wiring

1. Provide DC 12 Volt input power for 10590SF. **(Provide DC 24 Volt input power for 10590SF24)**
2. Protect input power positive (+) terminal with 10 A fuse or circuit breaker. **(Use 5 A fuse for 10590SF24)**
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. According to your control device, see below and the diagram:
 - (a) If joystick, the spot light links to joystick control panel by telephone line.
 - (b) If handheld remote control, no additional wiring needed.
 - (c) If mounted remote control, provide input power to the mounted remote control. Protect input power positive (+) terminal with 1 A fuse or circuit breaker.

! The power switch on joystick control panel should be set to "OFF" before supplying power to the product.

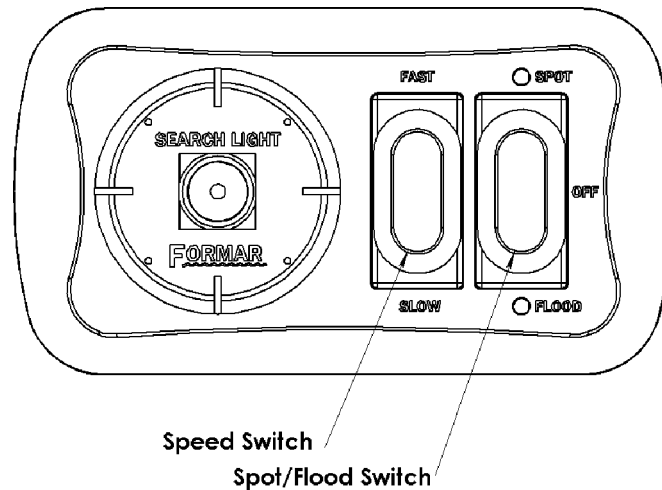
! Use correct product for your power source (DC 12 or 24 Volt). Wrong voltage will damage product and may cause safety hazard.



Operation

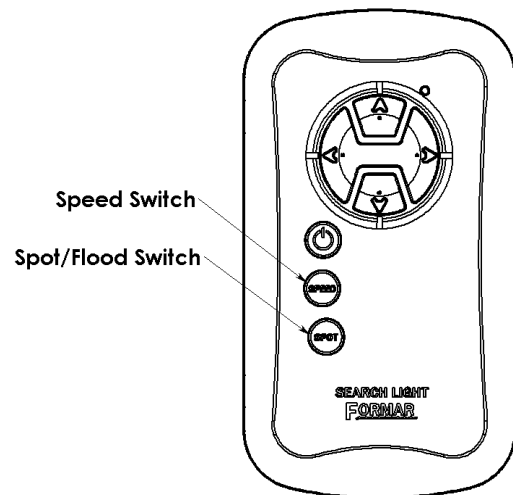
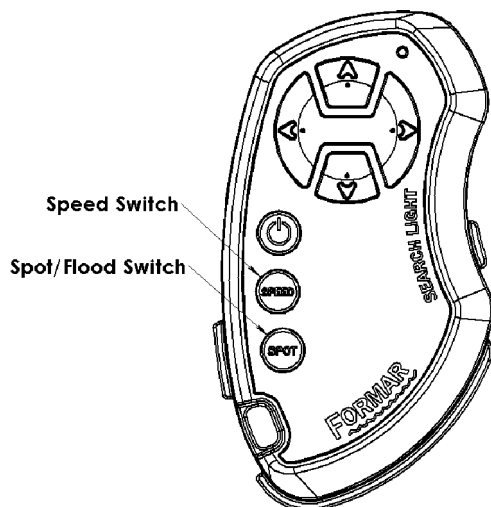
Joystick Control (Optional)

1. The control of spot light by joystick is straightforward.
2. The speed switch (see picture below) is for horizontal rotation only.
3. Change light beam coverage by spot/flood switch (see picture below).



Remote Control (Optional)

1. Press arrow key to control rotation of the spot light.
2. The speed switch (see picture below) is for horizontal rotation only.
3. Change light beam coverage by spot/flood switch (see picture below).
4. Same operation for mounted remote control.



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 spot light while the product is in operation.
- ❗ **DO NOT** cover the light with any material, otherwise accidental activation of the product may result in fires.

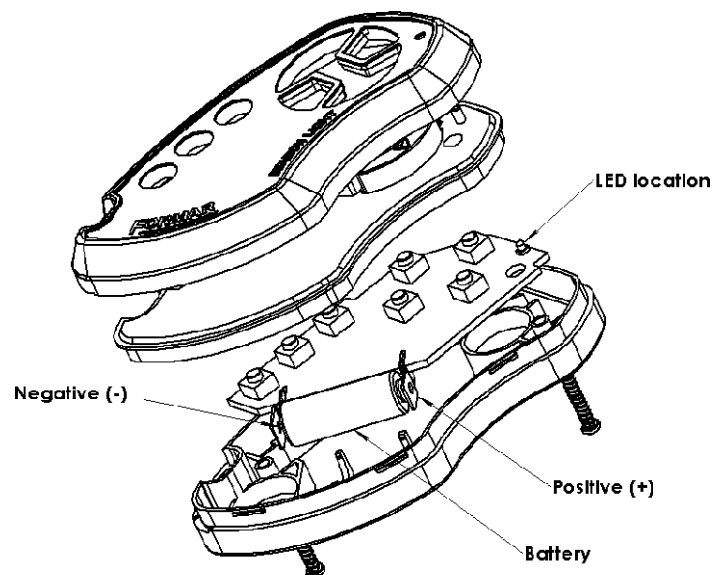
Maintenance

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 battery for remote control ...

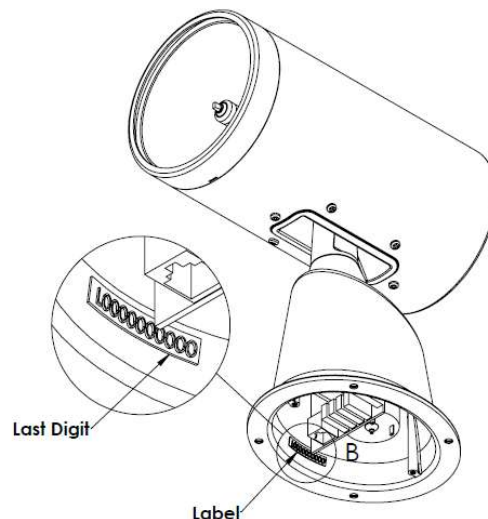
1. Remove remote control from bracket.
2. Loosen the two (2) screws from back cover of remote control.
3. Carefully disassemble remote control, see details in picture below.
4. Replace the used 12V / A23 battery with new one.
5. Push any button to check if the LED indicator illuminate.



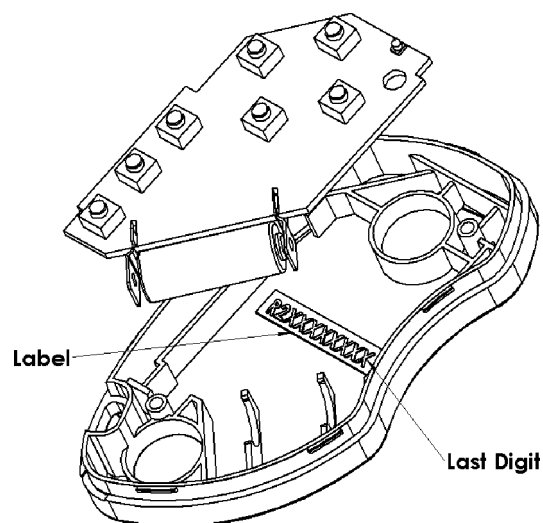
How to replace or add remote controls ...

Locate serial number in one of the following locations:

1. In case of remote control missing, user can remove the four (4) screws and take off glass front cover to obtain serial number shown on the label placed inside housing, see picture below. Note the last digit of the serial number S2XXXXXXXX (X=0~9) then notify dealer.



2. User can also loosen the two (2) screws from back cover of the remote control to obtain serial number shown on label R2XXXXXXX (X=0~9). Note the last digit of serial number then notify dealer.



Which are replaceable parts ...

1. H4 100/90 Watts halogen light bulb
2. Controls:

R – Remote Control SF – Spot/Flood Mode

Control Light Model	Joystick	Remote	Mounted Remote	Mounted Remote
	 10585SF	 10585SFR	 10586SFR	 10586SFR24
10580SF	V	V	V	
10580SF24	V	V		V

3. Main PC board
4. Lower motor
5. Upper motor
6. Digital cable (RJ11 6P4C Pin 1-1 straight through, 15 ft / 25 ft / 35 ft) for 10585SF.

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 spot light does not respond to remote control.

- ➡ Press and hold button for 2 seconds.
- ➡ Move to a location that is less than 15M away.

- ➡ Move to a location that has no obstructing structure between remote control and spot light.
- ➡ Make sure the light is not mounted on any metal surface and there is sufficient clearance below.
- ➡ Replace battery for remote control.
- ➡ Check whether the last digits of serial numbers inside light housing and inside remote control are identical.

... the light cannot be turned on.

- ➡ Secure light bulb.
- ➡ Replace light bulb.
- ➡ Check if correct type of telephone line (RJ11 6P4C Pin 1-1 straight through) is used.

... the spot mode or flood mode does not function.

- ➡ Replace light bulb.

... the spot light does not respond to any control.

- ➡ Check voltage of inboard battery.
- ➡ Check the fuse or circuit breaker that protects spot light and joystick control panel.
- ➡ Carefully uninstall the spot light. Examine the electrical connections and wire harness.
- ➡ Check if correct type of telephone line (RJ11 6P4C Pin 1-1 straight through) is used.
- ❗ Do NOT replace a blown fuse until the cause of spot light malfunction is identified and resolved.
- ❗ DO NOT replace a blown fuse with a fuse that takes higher current.

... the spot light halt during operation.

- ➡ Return spot light and joystick control panel to dealer for further inspection.

... the spot light cannot rotate in certain direction.

- ➡ Carefully uninstall the spot light and examine the electrical connections and wire harness.
- ➡ Replace joystick control panel.

... the brightness of the light significantly decayed.

- ➡ Replace light bulb.

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

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

Limited Warranty

For one (1) year from the date of original purchase, Formar 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.

