

Precision Spotlight Instructions

LIMITED WARRANTY

For three (3) years from the date of purchase, Maringo will, at its discretion, repair or replace for the original consumer, free of charge, any part or parts found upon examination by Maringo to be defective in material or workmanship or both. All transportation charges under this warranty must be borne by the consumer.

Proof of purchase is required. Proof of purchase must be a computerized receipt. Handwritten receipts are not accepted.

THERE IS NO OTHER EXPRESSED WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES ARE EXCLUDED WHERE PERMITTED BY LAW.

FCC

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

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Instructions

Installing and Using the Precision Spotlight

MODELS: SPL-12W, SPL-12B, SPL-12C



IMPORTANT!

READ THESE INSTRUCTIONS BEFORE INSTALLING AND USING THIS PRODUCT.

INTRODUCTION

The Marlinco Precision spotlight uses a super bright 100 Watt, replaceable H3 Halogen bulb that produces a rich yet intense beam that can illuminate objects up to 1,000ft away. It is IP56 Weatherproof rated for extreme environments, with a UV weather resistant housing and fully enclosed tilt function driven by quiet motors that can withstand extreme temperatures (5°F to 113°F or -15°C to 45°C). It has been designed and tested to withstand the harsh marine environments including high humidity, salt water spray, shock, and vibration. Innovative construction allows for upside down mounting and reverse motion programming. Precision circuitry allows for remarkable aiming and tracking with two speed choices. The spotlight has a 30 minute shut-down timer. If the spotlight is left unattended for more than 30 minutes, the spotlight will turn off. The shut-down has no effect on the SOS function of the spotlight.

The Precision remotes have glow in the dark buttons and include one touch Automatic Sweep and SOS options. The wireless remotes transmit a signal up to 200ft (60m). While the spotlight comes with a wireless bridge remote there are two more optional remotes: a wireless handheld remote w/lanyard (SPLR-1) and a hard wired bridge mount remote (SPLR-3).

PACKAGE INCLUDES:

- Spotlight with 12 Volt bulb installed
- Additional 24 Volt bulb**
- Mounting kit (no fasteners included)
- Wireless Bridge Remote
- Instruction manual

** (models SPL-12W, SPL-12B, SPL-12C only)

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Required for Installation:

- Four (4) No. 10 stainless steel pan head screws for spotlight bracket (*Length and type of screws to be determined by mounting surface*)
- Two (2) No. 6 stainless steel pan head screws (*Length and type of screws to be determined by mounting surface*)
- Two (2) #16 AWG butt wire connectors

⚠ WARNING IF THE APPLICATION IS 24 VOLTS, THE 12 VOLT BULB WILL NEED TO BE REPLACED WITH THE 24 VOLT BULB. TO REPLACE THE BULB REFER TO THE BULB REPLACEMENT SECTION. (PAGES 4-5).

Failure to use the appropriate bulb wattage will damage the spotlight.

⚠ WARNING BEFORE OPERATION REMOVE BLUE FILM FROM LENS. FAILURE TO REMOVE FILM WILL DAMAGE THE SPOTLIGHT.

Mounting and wiring of the Precision Spotlight

1. Select a flat surface to mount the spotlight. Make sure there are no obstructions around the spotlight that could interfere with the rotation (*template included with light*). Be sure you will have wiring access to the underside of the chosen location and that drilling holes will not damage existing wiring or structures. Avoid locations where lines, anchors and sails might entangle or damage the light.
2. Refer to the template for mounting and wire hole location.
3. While installing the mounting bracket make sure that the securing screw is opposite the direction that the light will be facing. Mark the mounting holes and center wire hole. Be sure that there is at least a 6" (145mm) radius of clearance from the center hole. *See dotted line on figure 1.*
4. Drill hole sizes appropriate for the type of screws or bolts being used. *Note: the maximum bracket hole sizes are No. 10 screws.*
5. Drill the appropriate hole size to accommodate the wires. This will depend on the type of wire being used.
6. The spotlight requires 12 or 24 volt power supplied through appropriate gauge wire. (*Note: If the wired bridge remote version is used then 2 additional wires will need to be routed from the remote to the spotlight.*)

⚠ WARNING CORRECT WIRE SIZE FOR THE RUN AND CIRCUIT BREAKER PROTECTION NEEDS TO BE SELECTED BASED ON ABYC STANDARDS. FAILURE TO FOLLOW ABYC STANDARDS MIGHT LEAD TO SEVERE INJURY, DEATH OR DAMAGE TO VESSEL.

7. Mount the bracket. But first apply a small amount of non silicone sealant to where the screws or bolts penetrate the mounting surface. (*Note: mounting bracket screw heads should not protrude more than .2" (5mm) above mounting bracket.*)
8. Connect wires to spotlight using butt connectors. Red wire is positive, Black wire is negative.

⚠ WARNING POLARITY OF THE WIRES NEEDS TO BE CORRECT TO OPERATE THE SPOTLIGHT! FAILURE TO WIRE CORRECTLY WILL DAMAGE THE SPOTLIGHT SYSTEM!

9. Slide spotlight over mounting plate making sure the wires are not pinched and the two holding tabs engage the light in the proper location. Align the external screw hole with the screw threads on the mounting plate. This will require a degree of pressure and effort as the mounting seal must be suitably compressed during this process. Insert securing screw and ensure that it is fully engaged and secure.

⚠ CAUTION YOU MUST FEEL THE SCREW REACH A TWISTING TORQUE TO KNOW THAT IT IS PROPERLY ENGAGED

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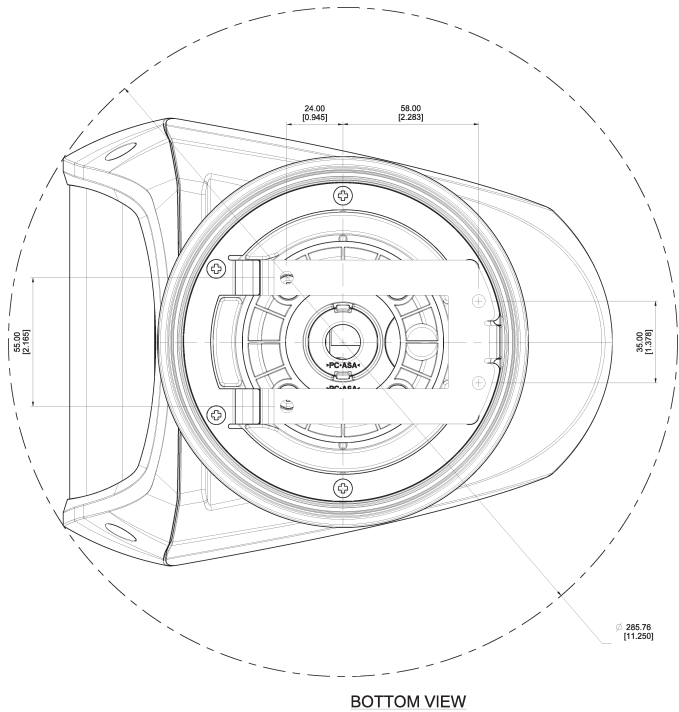
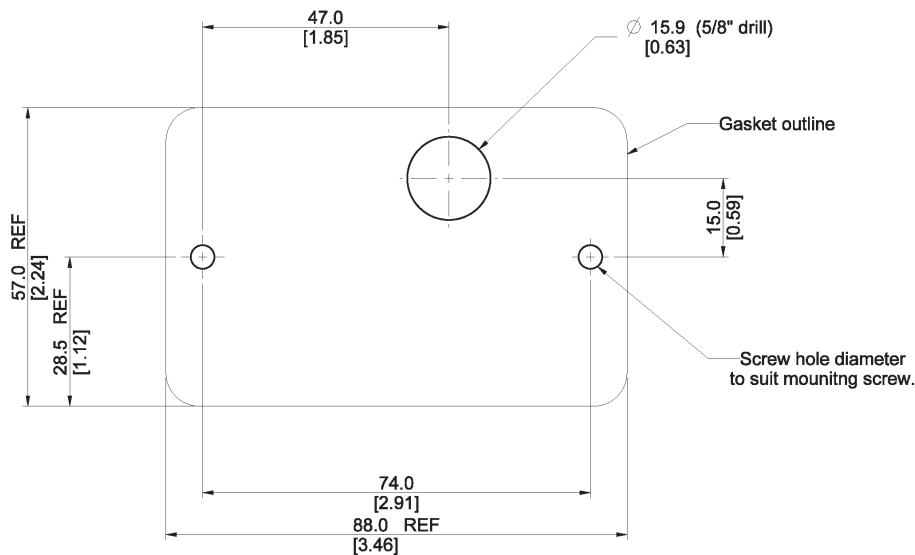


FIGURE 1



Precision Spotlight Instructions

SPECIFICATIONS

3 YEAR
WARRANTY

Bulb	100 Watt, H3 Halogen (replaceable) (12 Volt installed / 24 Volt included)
Power (Input voltage)	12 Volt or 24 Volt (note: must match bulb with voltage)
Current draw (idle / in use)	0.03 Amps / 7.0 Amps
Peak beam intensity	210,000 cp
Peak beam distance	917 ft (280 m)
Lux @ 66' (20m)	525 Lux
Coverage at 66' (20 m)	132 sq Ft (12 sq m)
Rotation	370° (built in limit stops)
Tilt	120° Tilt (75° up and 45° down)
Wireless range	200 ft (65m)
Dimensions	7.5"W x 7.5"H x 9.25"D (19cm x 19cm x 23.5cm)
Weight	3.30 lbs (1.5 kg)
Housing material	UV resistant PC/ASA
Lens material	UV resistant Lexan®
Wire type	16 AWG power 24 AWG control
Operating temp range	5°F to 113°F (-15°C to 45°C)
IP Rating	IP56

Tested in accordance with ANSI/NEMA standard FL1

Description	Color	Item #	OEM #
12/24 Volt, 100 Watt	white	SPL-12W	—
12/24 Volt, 100 Watt	black	SPL-12B	—
12/24 Volt, 100 Watt	chrome	SPL-12C	—
12 Volt, 100 Watt	white	—	SPL-12W.OEM
12 Volt, 100 Watt	black	—	SPL-12B.OEM
12 Volt, 100 Watt	chrome	—	SPL-12C.OEM
24 Volt, 100 Watt	white	—	SPL-24W.OEM
24 Volt, 100 Watt	black	—	SPL-24B.OEM
24 Volt, 100 Watt	chrome	—	SPL-24C.OEM

Replacement Bulbs

Description	Item #
12 Volt, H3 Halogen	202319
24 Volt, H3 Halogen	202320



Remote Specifications

	Included * Wireless Bridge Remote (SPLR-2)	(Optional) † Hand Held Bridge Remote (SPLR-1)	(Optional) ▲ Wired Bridge Remote (SPLR-3)
Power	12 or 24 Volt (hard wired to power)	CR2450 button cell battery	12 or 24 Volt (hard wired to spotlight)
Current draw (idle / in use)	negligible	negligible	negligible
Wireless range	200 ft (65m)	200 ft (65m)	—
Estimated battery life	—	> 40 hours (continuous use)	—
Dimensions	3.5"W x 2.25"H x .75"D 88mm x 57mm x 19mm	2.0"W x 3.78"H x 1"D 51mm x 96mm x 25mm	3.5"W x 2.25"H x .75"D 88mm x 57mm x 19mm
Weight	2.12 oz. (60g)	2.82 oz. (80g)	2.12 oz. (60g)
Housing material	UV resistant PC/ASA	UV resistant PC/ASA	UV resistant PC/ASA
Button material	Silicone (glow in the dark)	Silicone (glow in the dark)	Silicone (glow in the dark)
Wire	16AWG	—	24AWG
Operating temp range	5°F to 113°F (-15°C to 45°C)	5°F to 113°F (-15°C to 45°C)	5°F to 113°F (-15°C to 45°C)
IP Rating	IP54	IP56	IP54

Replacement Parts

Part#	Description
202319	12V, H3 halogen replacement bulb
202320	24V, H3 halogen replacement bulb
SPLR-1	Spotlight remote, wireless hand-held
SPLR-2	Spotlight remote, wireless bridge mount
SPLR-3	Spotlight remote, wired bridge mount

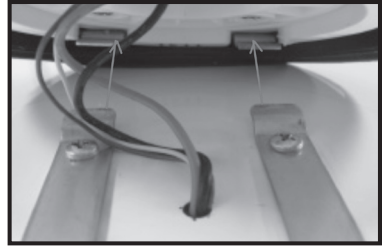
* There is no wiring required from the spotlight to the bridge remote. The spotlight and the bridge remote must be wired locally to power.

† The hand held bridge remote includes a wrist lanyard and a surface mount cradle.

▲ The wired bridge remote requires hard wiring of 2 leads from the spotlight to the bridge.

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Note: In the photograph, the purple and yellow control wires are shown for the wired-remote. If a wireless bridge remote is used, then the purple and yellow leads are not necessary and can be tucked away within the spotlight base



Mounting the wired and wireless bridge remote

1. The remotes are all IP54 weather resistant.
2. Please choose a mounting location based on the gasket supplied with the remote (*large hole should be towards top*)
3. Drill holes the correct size for the mounting screws. The holes through the remotes are sized for a No. 6 pan head screw. The length and thread type will need to be determined by the application. Set aside the 2 screw covers.
4. Drill hole for the wiring. Note that the hole needs to be 5/8" to allow the unit to sit flat.
5. If mounting the wireless bridge remote it will require a 12V or 24V power source.

If mounting the hard wired bridge remote then it does not need a local power source and instead uses the 2 wires connecting from the spotlight to the remote. These two wires will supply the remote with power and control the spotlight. The terminals on the remote can handle a 16 awg to 26 awg wire. Maximum torque on the terminals is 2.21in lbs (.25 nm)

6. Feed wires through drilled surface hole and gasket from below
7. For the wireless bridge remote attach the power source wires to the remote (+) positive and (-) negative terminals.

For the hard wired bridge remote attach the 2 wires from the spotlight. The yellow wire needs to connect to the (+) positive and the purple wire needs to connect to the (-) negative. Maximum Torque on the terminals is 2.21in lbs(.25 nm)

8. Place remote in desired location, align holes and tighten down.
9. Apply screw caps to remote to hide screws.

PAIRING OF MOUNTED AND HAND HELD WIRELESS REMOTE TO SPOTLIGHT

1. Turn off all power to the spotlight.
2. Apply power to mounted remote. Press and hold the power button on the wireless remote.
3. While pressing the power button apply power to the spotlight.
4. After a few seconds you will hear the relay click and the light will turn on.
5. When the light turns on the pairing is complete, release power button.

PROGRAMMING THE REMOTE WHEN MOUNTING THE SPOTLIGHT UP-SIDE-DOWN

NOTE: This procedure reverses the directional buttons on the remote.

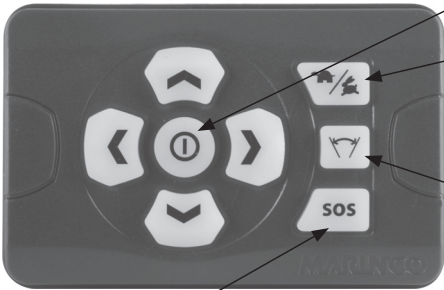
1. Pairing of the remote described above must be completed first.
2. Remove all power to the spotlight.
3. Hold down the tilt UP and DOWN buttons on the remote.
4. While pressing the 2 buttons apply power to the spotlight and continue to hold down the buttons for 3 seconds until the spotlight tilts up or down.
5. The spotlight is now configured for inverted mode. Release buttons.
6. To return the spotlight to the standard configuration repeat steps above.



BEFORE OPERATION REMOVE BLUE FILM FROM LENS

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OPERATION



Power on/off

Speed Control

Pressing this button will allow you to change speed of the light, SOS, and Sweep Angle function.

Auto Sweep

When this button is pressed the light will begin to sweep left and right at 90° for slow speed and 70° for high speed. Press the button again or a directional button to stop the sweep.

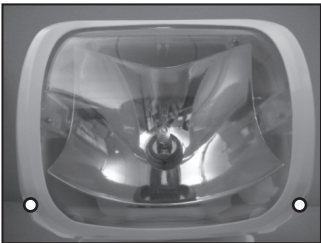
SOS

(... — — — ...)

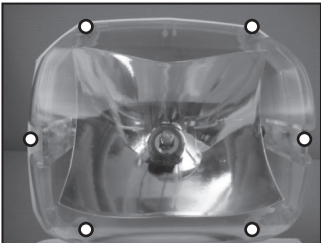
Pressing this button the light will begin to signal the Morse code distress signal. Press again to turn off.

BULB REPLACEMENT CAUTION! AVOID TOUCHING THE GLASS SURFACE OF THE NEW BULB. (TOOLS REQUIRED: MEDIUM PHILLIPS SCREWDRIVER)

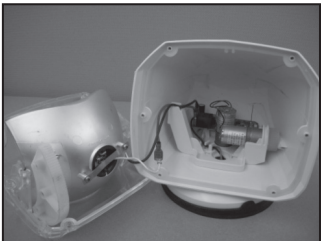
1. Remove 2 screws on bottom of lens bezel and remove bezel.



2. Remove 6 screws from around the lens.

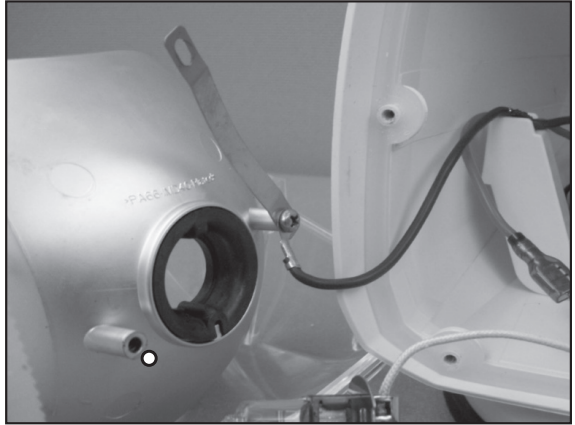


3. Remove lens and reflector as an assembly.

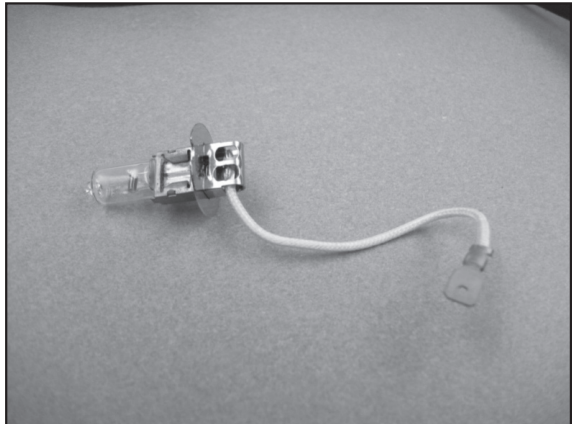


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4. Remove the screw holding the metal grounding bar behind the reflector. Remove the bulb assembly by pushing on the bulb so it exits the back of the reflector.



5. Unplug bulb and replace with new bulb. (or 24 volt bulb if installation requires). During reassembly, hand tighten all screws until snug. Do not overtighten or use a power driver as doing so may strip the threaded screw bosses.



CAUTION AVOID TOUCHING THE GLASS SURFACE OF THE NEW BULB.