

►ULSAR[™] 12-Volt Navigation Lights

All-Round Lights: 5940, 5980 Sidelights: 5040, 5045, 5080

Installation Instructions

SAVE THESE INSTRUCTIONS

Form Number 69379 Rev. B

03-10

FEATURES

The Attwood Pulsar Navigation Lights are designed for boats upto 39.6 ft. (12 meters). They feature impact resistant, UV-stable polycarbonate housings. The lens completely encloses the bulb and socket for a splash resistant seal. Lights meet USCG CFR 183.810, ABYC A-16 requirements, and all applicable standards as tested by Imanna Labs, March 1997. 5040, 5045, and 5080 are Sidelights with 1 Nautical Mile visibility. 5940 and 5980 are All-Round Lights with 2 Nautical Mile visibility. All use Lamp 9235, #906, 13V, 6 Candle Power.

REQUIRED FOR INSTALLATION

- Cordless drill with 1/8", 3/8", and 3/4" (3, 10, and 19mm) bits.
- Screwdriver
- Two #8 or #10 stainless pan head screws per light.
- · Non-silicone sealant.

riangle WARNING:

To prevent personal injury, disconnect the power source when installing or servicing this product. Always remove the boat from the water before using 120V AC power tools.

LOCATION (All-Round Lights)

All-Round Lights must be mounted a minimum of 1 meter above the sidelights, on a smooth surface where the 360° beam will not be obstructed. Light must not shine on operator or on anything in operator's field of view. (Figure 1)

Important: Before drilling mounting holes, be sure that light shines within 5° of horizontal **when the boat is floating.**

Figure 1

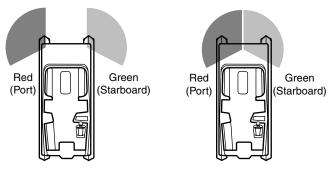


LOCATION (Sidelights)

Mount sidelights to a smooth surface on the gunwale, deck or superstructure where the light beam will not be obstructed. Position Bi-Color combination light as far forward as possible. (Figure 2)

Important: Before drilling mounting holes, be sure sidelights shine straight ahead and that they shine within 5° of horizontal **when the boat is floating.**

Figure 2



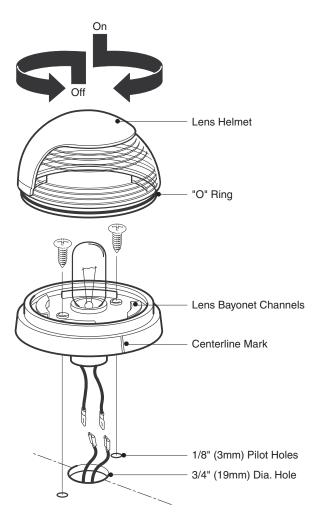
INSTALLATION, DECK MOUNT All-Round Lights

- To access mounting holes, gently twist lens helmet counterclockwise to remove.
- 2. Place light in position as shown in Figure 1.
 - **Important:** Before drilling, be sure that light will shine within 5° of horizontal when boat is floating.
- 3. Mark and drill 3/4" (19mm) diameter hole. (Figure 3)
- Thread wire leads and base stem into hole. Mark location of screw holes. Proceed to Step 5 below.

Bi-Color Sidelights and Sidelight Pairs

- To access mounting holes, gently twist lens helmet counterclockwise to remove.
- 2. Place sidelight(s) in position as shown in Figure 2.
 - **Important:** Before drilling, be sure that sidelights will shine straight ahead and within 5° of horizontal when boat is floating.
- For Bi-Color Combination light, mark and drill a 3/4" (19mm) diameter hole on the boat centerline. For Sidelight Pairs, mark and drill a 3/4" (19mm) diameter hole on each side deck of the boat, equal distance from the bow. (Figure 3)
- 4. Thread wire leads and base stem into hole. Align centerline mark with straight-ahead position and mark location of screw holes.
- 5. Remove base and drill 1/8" (3mm) pilot holes for both screws.
- 6. Bring 12V DC (+) and (-) wires up through deck hole. Connect wires using waterproof crimp on butt joint connectors.
- 7. Activate light to verify proper operation.
- Apply a thin bead of non-silicone sealant into groove on underside of base to prevent water from entering hull or cabin. Do not allow sealant to enter the lens bayonet channels.
- 9. Align and fasten base with stainless screws. Do not over tighten.
- Replace lens helmet flush on base and turn clockwise until click is heard and felt. (Figure 3)

Figure 3



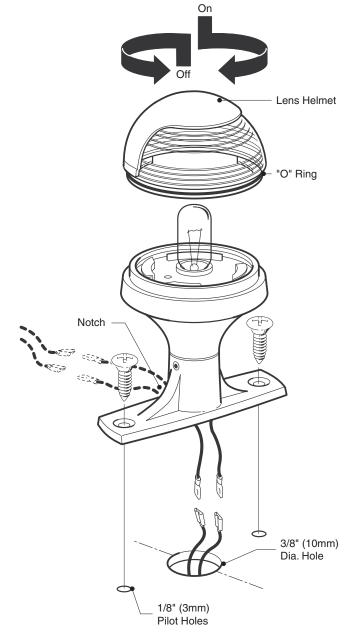
INSTALLATION, RAISED BASE MOUNT All-Round Lights

- Place light in position as shown in Figure 1.
 Important: Before drilling, be sure that light will shine within 5° of horizontal when boat is floating.
- Mark and drill 3/8" (10mm) diameter hole (Figure 4; Sidelight lens is shown).
- Thread wire leads and base stem into hole. Mark location of screw holes. Proceed to Step 4 below.

Bi-Color Sidelights and Sidelight Pairs

- Place sidelight(s) in position as shown in Figure 2.
 Important: Before drilling, be sure that sidelights will shine straight ahead and within 5° of horizontal when boat is floating.
- For Bi-Color Combination light, mark and drill 3/8" (10mm) diameter hole on the boat centerline. For Sidelight Pairs, mark and drill 3/8" (10mm) diameter hole on each side deck of the boat, equal distance from the bow. (Figure 4)
- Thread wire leads and base stem into hole. Align lens division with straight-ahead position and mark location of screw holes.
- 4. Remove base and drill 1/8" (3mm) pilot holes for both screws.
- 5. Bring 12V DC (+) and (-) wires up through deck hole. Connect wires using waterproof crimp on butt joint connectors.
- 6. Activate light to verify proper operation.
- 7. Apply non-silicone sealant to underside of base.
- Align and fasten base with stainless screws. Do not over tighten. (Figure 4)

Figure 4

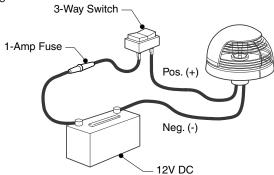


FINAL WIRING CAUTION:

Power source must be positive 12V DC only. All positive (+12V DC) wires must be fused to protect the circuit. Attwood Pulsar Navigation Lights require a 1-amp fuse. Failure to make proper connections and fusing will void product warranty.

- Neatly thread wires to dash avoiding any areas where abrasion or snagging may occur.
- Use waterproof crimp on butt joint connectors to attach wires to a switch on the dash that allows for two-position operation - one for running lights and one for anchor lights. Test lights for proper operation. (Figure 5)

Figure 5



MAIINTENANCE

For cleaning or to replace bulb, gently twist lens helmet counter clock-wise to remove. Replace with standard #906 lamp, Attwood #9235. Check"O"-ring for cracks and insure that it is properly positioned on lens. Replace lens helmet on base and turn clockwise until click is heard and felt.

ATTWOOD LIMITED WARRANTY

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