

READ AND SAVE THESE INSTRUCTIONS

INSTALLATION & OPERATION INSTRUCTIONS

CAUTION:

Before assembling your lighting fixture, refer to the section titled electrical connections. If you feel you do not have electrical wiring experience, refer to a do-it-yourself wiring handbook or have your fixture installed by a qualified licensed electrician.

GENERAL:

1. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
2. All electrical connections must be in accordance with local codes ordinances, or the national electrical code. If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified licensed electrician.
3. These fixtures are intended to be mounted to A4"x 2-1/8" deep metal octagon outlet box. The box must be directly supported by the building structure.
4. Before starting the installation, disconnect the power by turning off the circuit breaker or by removing the fuse at the fuse box. Turning the power off using the light switch is not sufficient to prevent electrical shock:

NOTE:

The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and care are factors which cannot be built into any product. These factors must be supplied by the person (s) caring for and operating the fixture.

THE FIXTURE

Check the contents of the box You should receive:

Mounting bracket
Mounting hardware
Fixture

Shade (s) not provided on all models.

PREPARE THE FIXTURE

NOTE: FIRST TURN OFF ELECTRICITY

1. If you are replacing an existing fixture. Disconnect and remove the old fixture. Expose the supply wiring from the outlet box.
2. If your fixture is supplied with a threaded stem for mounting, refer to figure 1 or 2 and follow step 3. If your fixture

is supplied with 2 machine screws, refer to figure 3 or 4 and follow step 4.

3. If your fixture is supplied with a threaded nipple, screw the nipple 3 complete turns into the mounting bracket and lock into place with a Hexagon locknut.
4. If your fixture is supplied with two machine screws: thread the machine screws into the opposite side of the mounting bracket from the green grounding screw.
5. Fasten the mounting bracket to the outlet box using the two screws provided. The machine screws or threaded nipple should be facing the outward direction.
6. While supporting the fixtures, connect the grounding wire (Green or bare copper) from the fixture to the grounding conductor of the supply circuit, attach all of the grounding conductors to the mounting bracket with the green grounding attachment screw.
7. Make electrical connections, see below.

ELECTRICAL CONNECTIONS

To make electrical connections:

Connect the white wire (s) from the fixture to the white wire of the supply circuit.

Connect the black wire (s) from the fixture to the black wire of the supply circuit, Use CSA listed wire connectors suitable for the size, type, and number of conductors. No loose strands or loose connections should be present, secure the wire connectors with CAS listed electrical tape.

FINAL ASSEMBLY

1. Spread the electrical splices so that the black wires are on one side of the outlet box and the white wires are on the other side.
2. Place the fixture against the mounting surface allowing the machine screws or threaded stem to pass through the fixture coverplate secure with the acorn nuts or mounting nut provided.
3. Install the light bulb (s) not provided).
Caution: Refer to the relamping label located near the lampholder for the recommended maximum wattage do not exceed recommended wattage.
4. If applicable, secure the glass to the fixture with the screws provided.
5. Outdoor wall fixtures must be caulked with suitable RTV or silicone compound around the top and sides of the coverplates to reduce the chance of water entering into the splicing area, Leave the bottom clear to allow moisture a means to escape.
6. Restore electricity and check the operation of your lighting fixtures.

IF THE FIXTURE IS TO BE MOUNTED OUTDOORS AND/OR IN A WET LOCATION, NOTE THE FOLLOWING:

The mounting surface should be clean, dry, flat and at least 1/4" larger than the fixture base on all sides. Any gaps between the mounting surface and the fixture base exceeding 3/16" should be corrected as required. Using SILICON CAULKING COMPOUND, caulk completely around the fixture base where it will meet the mounting surface to prevent water from seeping into the outlet box. Then continue with the following steps.

Fig.1

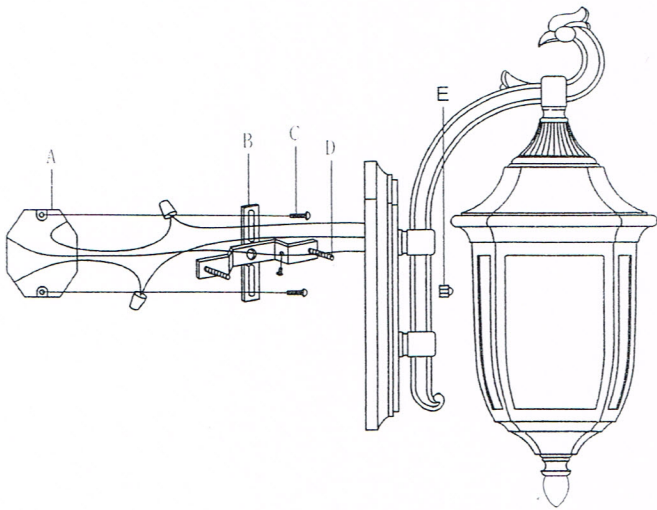


Fig.3

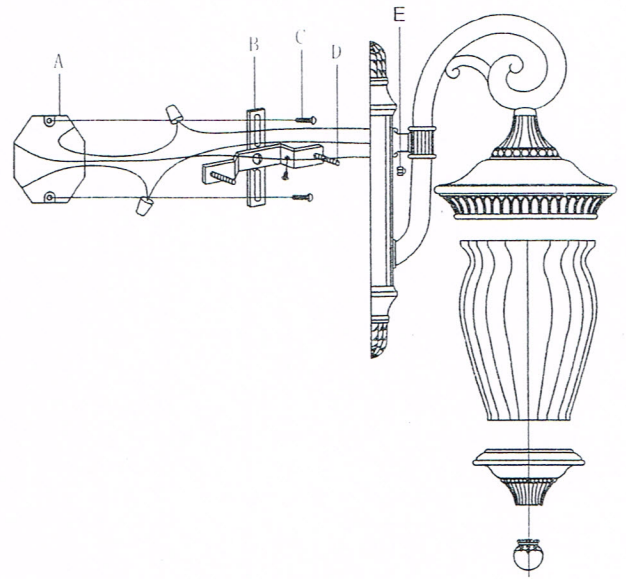


Fig.2

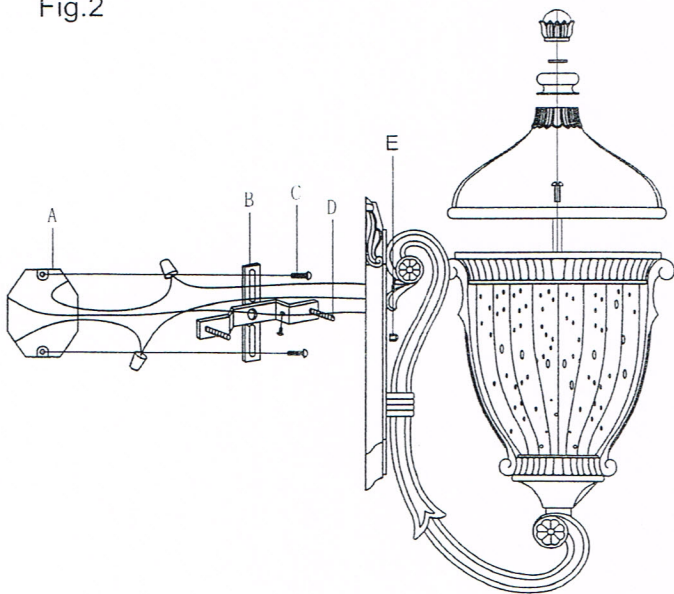
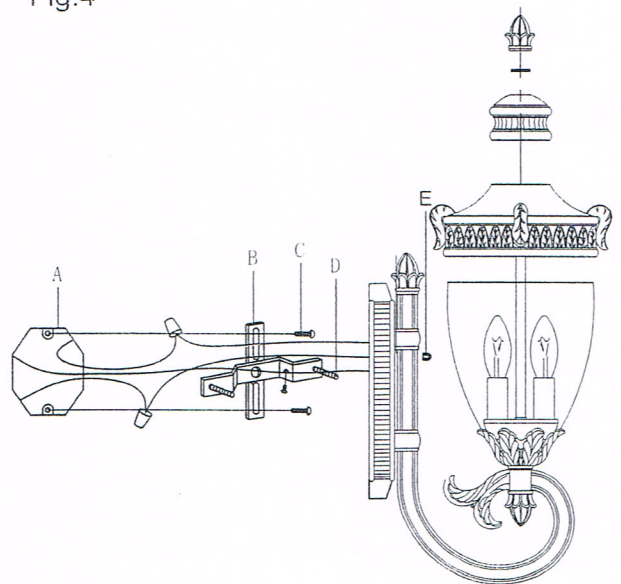


Fig.4



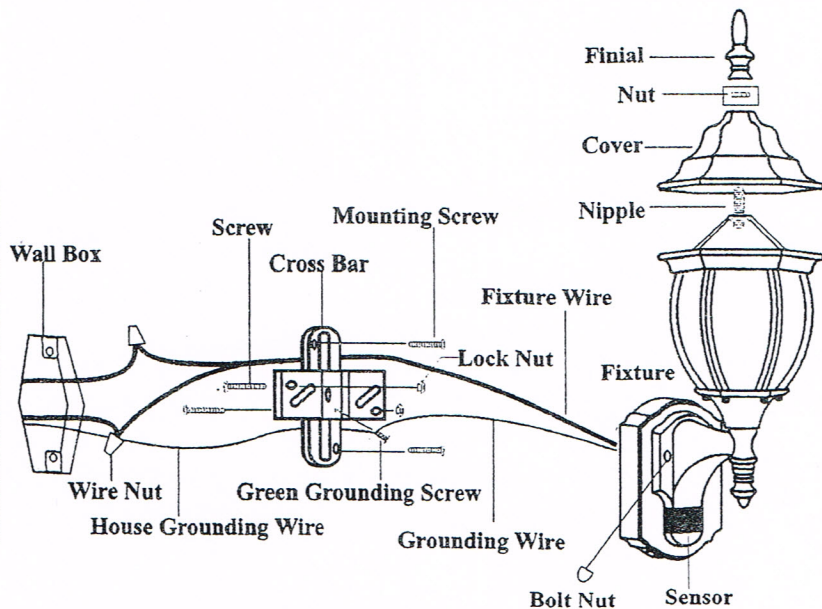
ASSEMBLY AND INSTALLATION INSTRUCTIONS

WARNING: TO AVOID RISK OF ELECTRICAL SHOCK, BE SURE TO SHUT OFF POWER WHILE INSTALLING OR SERVICING THIS FIXTURE.

NOTE: Before installing, consult local electrical codes for wiring and grounding requirements.

***Caution:**

1. To avoid sensor being damaged by thunderstorm, make sure the grounding wire is well connected.
2. For general safety and to avoid any possible damage to the sensor, be sure the power is switched "off" before replacing the bulb.



Features

- Working only at night when motion is detectable.
- Light will turn off automatically after people leave.
- PC' Mode provides illumination from dusk to dawn.
- When in manual override mode, use wall switch to keep the light on 6 hours.

Important to know

- Supply the lantern with 120V AC. Do not use a bulb with maximum capacity exceeding 100 watts.
- Mount the fixture upright in order to avoid short detection results.
- It is recommended to consult a qualified electrician to meet the state and local codes.

Before installation

- Make sure the power is shut off at the circuit breaker or the fuse.
- This lantern should be installed onto an existing wall box. Otherwise, a licensed electrician will be needed to install a new outlet with an independent wall switch.
- To optimize detection, the fixture should be installed 6.5' above the ground.

Installation Steps:

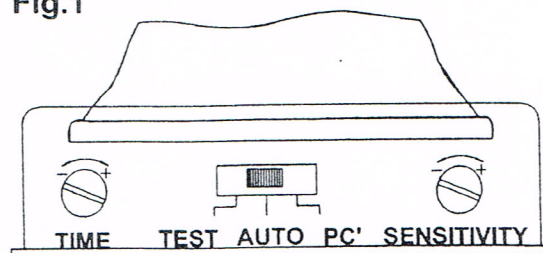
1. Thread 2 screws to the cross bar, and secure with 2 lock nuts. (You can adjust the length of the screws if necessary.)
2. Attach the cross bar to the wall box by using 2 mounting screws.
3. Make wire connections with wire nuts:
 - The black wire from fixture to the black wire from power source.
 - The white wire from fixture to the white wire from power source.
 - Attach the grounding wire and house grounding wire to the cross bar with a green grounding screw.Carefully tuck wires back into the wall box.
4. Attach the wall plate to the cross bar by inserting the screws, and secure with the bolt nuts.
5. Unscrew the nut from the nipple to remove the cover.
6. Install a bulb. (Please do not exceed the maximum capacity, which is recommended on the socket.)
7. Reattach the cover to the fixture by inserting the nipple, and secure with the finial.
8. Turn on the power at fuse or circuit box.

Function and Operation

Note: when power is first applied, the light will come on for about 30 sec. To allow the circuit into stability. Via the slide switch beneath the wall plate, there are 3 major functions can be carried. (See fig.1)

	TEST MODE	AUTO MODE	PC' MODE
Works at	Day & Night	Night only	Night only
Activated by	Motions	Motions	Light Level
On Time	As motion existing	As motion existing	Dusk to Dawn
Shut-off Delay	5 Sec.	5 Sec.~3 Min.	<3 Min.

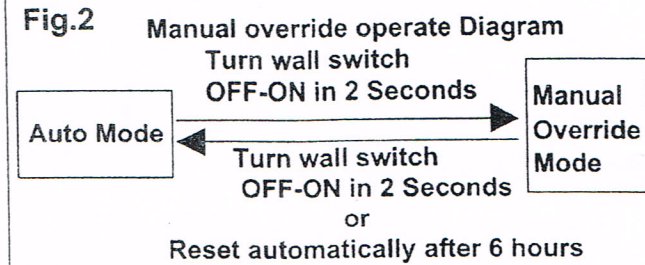
Fig.1



Manual Override Mode (6 hours auto rest)

By switching off the wall switch for 2 seconds and then on again, the light will stay on for 6 hours. To return to Auto Mode, simply switch the power off and switch on again in the same manner. (See fig.2)

Fig.2



Testing and Setting

- Installation of a height of 6.5' at 20°C, the lantern will provide a detection distance up to 35' (See fig.3). The sensitivity will be higher as the environmental temperature is getting cool. You may wish to make adjustment again when season changes.
- During Test Mode, the light will come ON for 5 sec. every time when motion is detected. Setting the shut-off delay Time only when the light is in the Auto Mode.
- Clean the sensor window with soft cloth every 1 or 2 month to dust the sensor from less sensitivity.

- The sensor is more sensitive to motions across its detection path rather than the motions towards it directly. Walking with normal speed across the detection area will set the desired detection distance properly.

Sensitivity

- The sensitivity was set at the maximum at the factory. By turning the knob in counterclockwise, the detection distance can be decreased to 5' as the minimum.
- The detection range can reach the max. coverage of 180 degrees. (See fig.4)

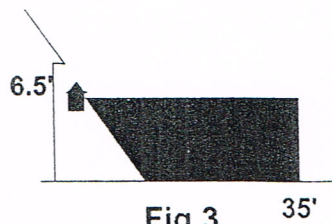


Fig.3

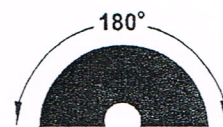


Fig.4

Shut-off delay time

The light will stay ON as long as the motion is detected. When people leaving, the light will turn OFF after the delay time has elapsed. The time was 5 sec as the minimum. By turning the knob in clockwise, it will increase the time up to 3 min. as the maximum.

Trouble Shooting

If the light does not come ON at all

1. Make sure the wall switch and the circuit breaker is ON and the wiring is correct.
2. Make Sure the slide switch is at the TEST position (when in day time).
3. Adjust the Sensitivity knob in clockwise to increase the detection distance.
4. When in AUTO or PC' Mode, cover the sensor with your palm to verify light level is not too high.

If the light stays on continuously

1. Make sure the light is not in Manual Mode. Reset the fixture by turning the power off for one minute then on again.
2. Make sure there is no motion existing in the detection area.
3. Adjust the Time knob counterclockwise to reduce the Shut-Off delay time.

If the light blinks

1. Make sure the light is not mounted near a heat or to any light source.
2. Reducer the sensitivity to avoid the undesired triggering by passing cars or reflecting objects.