



## SP001 Solar Water Pump Timer Kit Instructions All Solar Central

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Thank you from the entire ASC family for purchasing an ASC solar product! Please read this entire booklet before assembly.

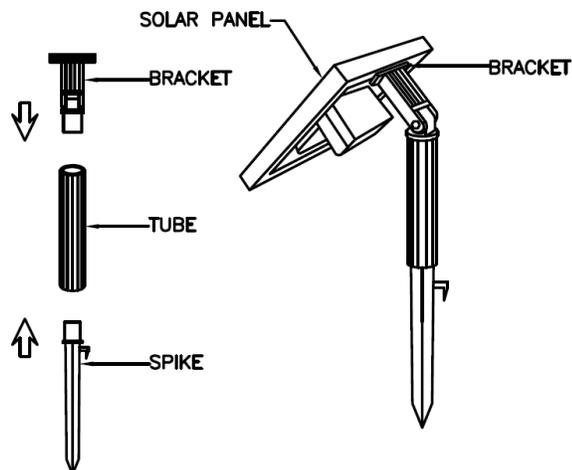
### Package contents:

- 1 x Water Pump with 16 ft. Cable
- 1 x LED Light Ring with 16 ft. Cable
- 1 x Solar Panel with Battery
- 1 x Solar Panel Bracket
- 1 x Extension Tube
- 1 x Ground Spike
- 1 x Set of Fountain Nozzles

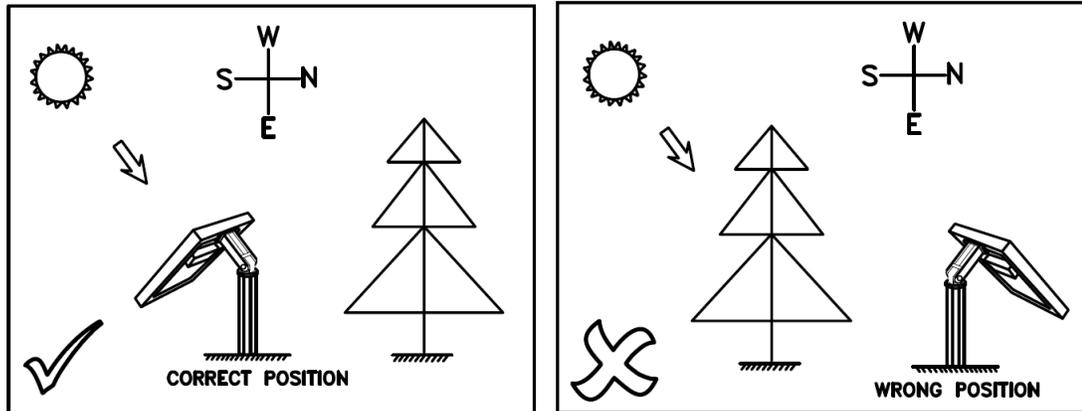
**Notes:** If there is any damage to the product or missing parts, please contact us at 1-626-582-8898 or [www.allsolarcentral.com/contactus](http://www.allsolarcentral.com/contactus)

### Assembly Steps:

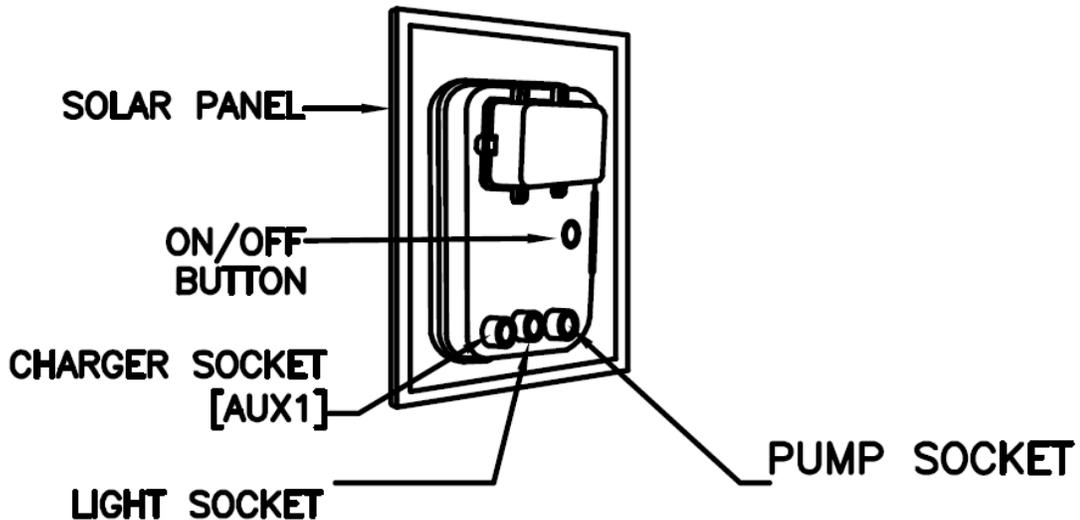
1. Connect the bracket, tubes and spike together. Then attach the solar panel to the bracket. Slide the holding bracket into the inside lip of the top half of the solar panel frame. The bracket holds the weight of the solar panel. The solar panel can be adjusted for optimal sunlight by using the wingnut. Please see the diagram.



2. Insert the spike into the ground. Position the solar panel so it's facing south (in northern hemisphere) as much as possible to maximize daylight hours. It is important to angle the solar panel to face the sun when the sun is at its highest point. Ensure the solar panel is not shaded by trees, shrubs or buildings.



3. Slightly twist the pump plug, sliding it into the pump socket. Then slightly twist the LED light plug sliding it into the light socket. Make sure the sealing rings are fully in the grooves. Your solar pump is now ready to use.



4. You can use an AC/DC adaptor (sold separately) to charge the batteries if optimal sunlight is not available. Connect the adaptor DC plug into the charger socket.

Note: The LED light is designed to work at night only

This ASC solar pump kit is designed to run by Solar and Battery with 3-Hour Timer Mode. *This mode works best if you want the pump run at the same time every day.* Press [On/Off] button, the pump will run for 3 hours and shut down (in standby) for 21 hours. This setting will repeat daily at the same time. You can reset the pump's daily start up time by restarting it at a new desired time.

### **BATTERY LIGHT:**

- **Green:** Pump works normally
- **Red:** Battery is low; pump will shut off
- **Orange:** Battery is being charged by an AC adapter (sold separately)

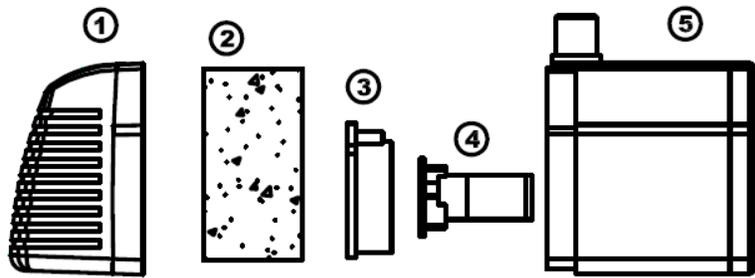
Notes: It is recommended to fully charge the battery before the first use by leaving the solar panel in direct sunlight for at least 6 hours with power off.

### **5. PERFORMANCE OF THE PUMP**

The performance of the pump depends on the orientation of the solar panel towards the sun and the sunlight strength. In order to achieve max performance, please make sure the panel is facing in the direction of the sun. A solar panel positioned in the shade or in poor weather will not maximize the charge. This models pump performance will depend on the battery power level. The pump will not work if battery power is too low.

### **6. PUMP MAINTENANCE**

If you find the pump starts losing power or stops working, please clean the pump filter and impeller with clean water.



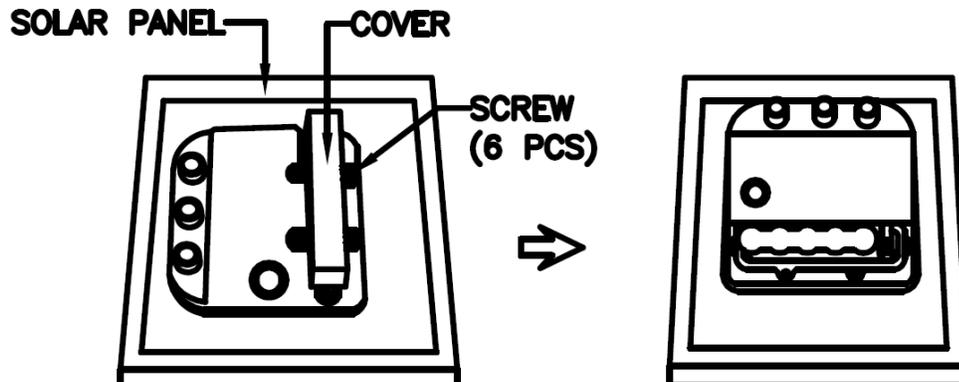
**① FRONT CASE ② FILTER ③ IMPELLER COVER  
④ IMPELLER ⑤ PUMP**

### **7. BATTERY REPLACEMENT**

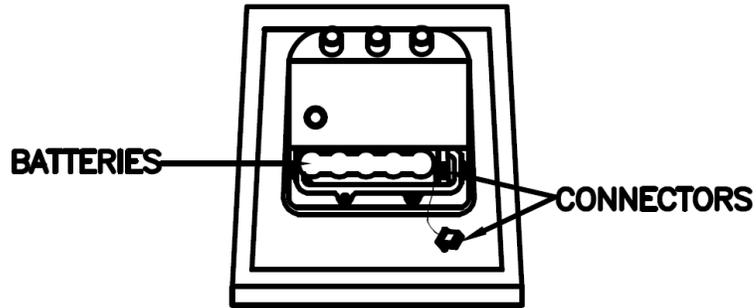
If properly maintained this solar pump has been designed to run for many years. The NI-MH battery pack does have a limited life span and should be replaced after 18-24 months of use.

To replace Battery Pack, please follow these steps:

- a. Remove LED Light plug and pump plug from the solar panel
- b. Remove the 6pcs screws from the solar panel



- c. Disconnect the battery bracket connectors and replace the 4 old batteries. Then, reconnect the battery bracket.



#### 8. TROUBLE SHOOTING

- Check to see if the solar panel, pump and led light are connected properly.
- Check to see if the solar panel is correctly positioned facing the sun. Please ensure the solar panel is not in the shade or obstructed by trees, shrubs or a building.
- Check if battery red light is on. If so, this indicates that the battery power is low. Switch off the pump and leave the solar panel charging in direct sunlight for at least 6 hours.
- Check water level and make sure the pump is fully submerged
- Check to see if the pump filter/impeller is blocked by debris
- Check to see if the fountain tubing is blocked by kinks or obstructions
- Check the pump. It may be “air locked”. Turn the pump on/off switch several times to clear any air that may have been trapped.

#### 9. WINTER PROTECTION

Indoor storage is recommended during winter months. Normal operating temperature is between 50 and 113 °F. In order to keep your battery healthy during long storage times, please make sure the battery is fully recharged before storing.

Please visit [www.allsolarcentral.com](http://www.allsolarcentral.com) for more products and offers.

