



Unpack The Package

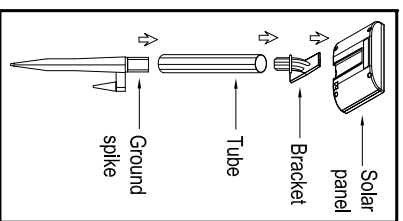
You should have received below parts:

- 1pc Solar panel
- 1pc Pump with 2m cable
- 1pc Bracket
- 1pc Extension tube
- 1pc Ground spike

To protect the product, place all parts on a soft surface before assembly.

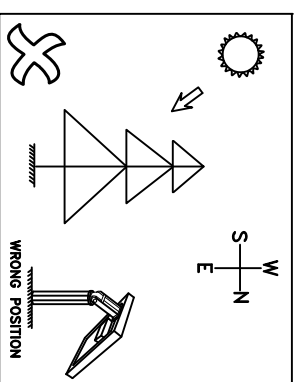
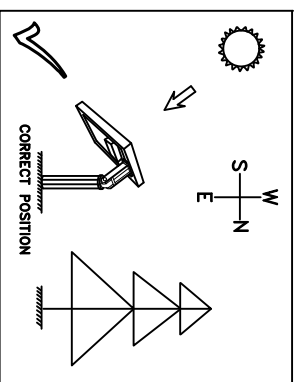
1. Installation of Solar Panel

Join the bracket, tube and ground spike together. Attach the solar panel to the bracket. Slide the bracket into the bracket slot in the backside of the solar panel. Insert the spike into the ground.



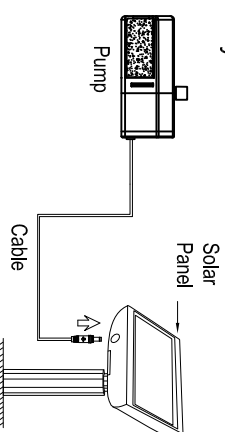
IMPORTANT!!!

Make sure you position the solar panel to face south (in Northern Hemisphere) as much as possible to make the most of the daylight hours. It is important to angle the solar panel to face sun when the sun is at its highest point. Ensure the solar panel is not shaded by trees, shrubs or buildings.



2. Assembly of Solar Pump

Twist the pump connector and push it into the socket in the solar panel. Make sure the sealing ring is fully in the groove. Now your new solar pump is ready for use.



Note: The solar pump will not work if the solar panel does not receive good sun light. No work indoors, only for outdoor use.

3. Operation and Function

After you have assembled the pump with solar panel, your pump will begin to work when the solar panel receives good direct sun light and the backup battery still store enough charges.

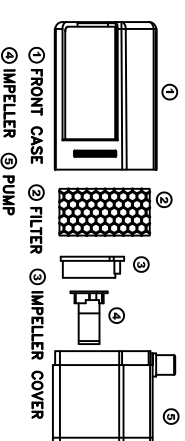
This solar pump is designed mainly for use in Summer months but also work in Spring and Fall as long as the sun light condition is good enough in your region. The solar powered pump, in common with all solar powered products, needs good direct sunlight to drive the pump and charge the backup battery. The pump's performance depends on the orientation of the solar panel toward the sun (see section 1) and the strength of sunlight.

Solar Powered Pulse Timing Function:

The product is designed to run intermittently and the pump will work at a pulse timing mode of approximately 2 seconds on and 5 seconds off as long as the battery has received enough charges from the solar panel.

Note: The pump will shut off to save the battery power when day goes dark, and it will re-start automatically when sun comes out again in next morning.

4. Maintenance of Pump
 If you find the pump start losing power or stop working, please clean the pump filter and impeller with clean water.



5. Problem Shooting

- Check solar panel positioned correctly to receive good direct sun light (see section 1), leave it charging under good direct sun light for several hours and re-check.
- Check pump connection.
- Check water level, make sure the pump is fully submerged in water.
- Check the fountain tubing for kinks and obstructions.
- Check the pump impeller blocked by debris
- Check the pump may be "air locked", turn on/off the pump several times to clear any air that may have been trapped.

6. Technical Data

Maximum Water Flow: 150 LPH
 Maximum Water Lift: 35 CM
 Protection Grade of Pump: IPX8
 Solar Panel: 0.8Watts-5V-160mA
 Panel size.: 120mm x 77mm x 28mm
 Protection Grade of Solar Panel: IPX4
 Battery: Ni-Mh 3.6V/300mAh AAA

7. Winter Protect

Indoors storage is recommended in winter.