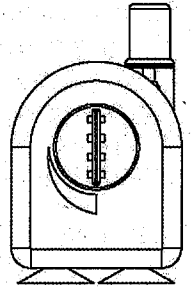


SOLAR PUMP KIT USER'S MANUAL

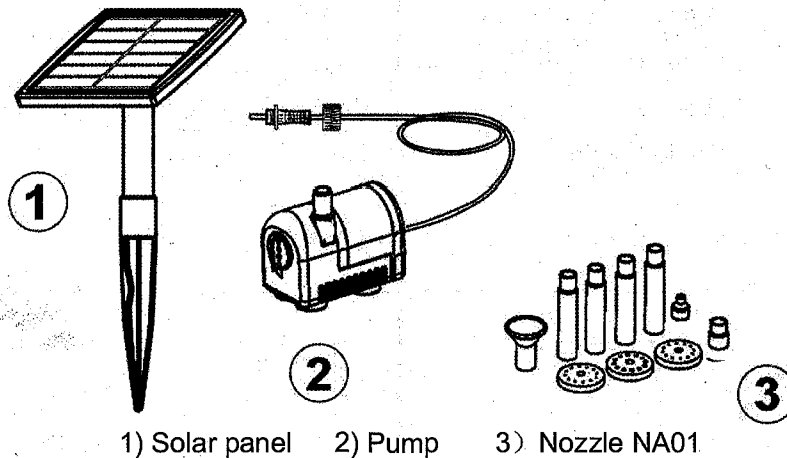
Design for fountain
Item No.: SP1.5-320605

1. OVERVIEW

- 1) The solar pump is designed for outdoor or indoor fountain use, and is powered by a solar panel. In order to make the pump work through solar energy, the solar panel needs to be placed in the sunlight facing the sun.
- 2) The performance of the pump depends on the sunlight intensity and the angle of incident light.
- 3) The pump introduces the latest DC brushless motor technology; it has high efficiency and long service life.
- 4) The pump flow rate can be adjusted by the means of the flow valve (referring to the right photo).



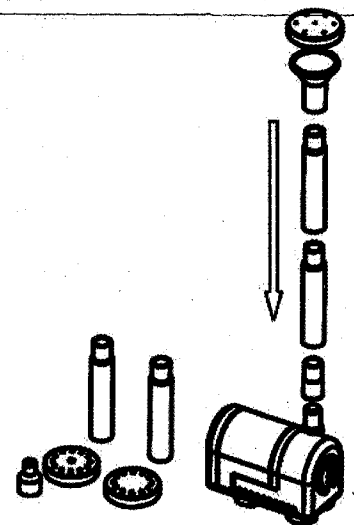
2. COMPONENTS



1) Solar panel 2) Pump 3) Nozzle NA01

3. ASSEMBLING

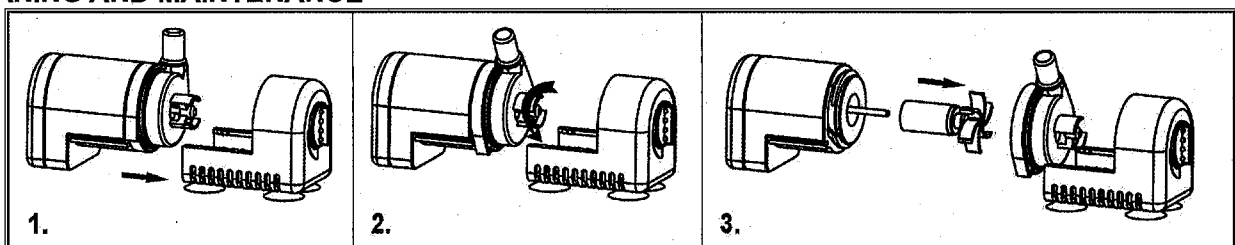
- 1) Unpack all components carefully.
- 2) For the usage of producing waterfall feature in small garden water decorations, fit the pump outlet to the water inlet of the decoration.
- 3) For the usage of creating a small spraying up fountain, just fix the pump at the base of a basin or small shallow pond etc.
- 4) Connect the fountain nozzles to the pump outlet tube according to the right photo; the attached nozzles can produce 4 different jet shapes.
- 5) To produce excellent fountain effect, please leave the fountain head above the water surface using the extension tubes. If these 4 pcs of extension tubes are all used and the pump head is still immersed in the water, please uplift the pump body.
- 6) Connect the pump to the solar panel, and tighten the screw for protection.
- 7) Install the solar panel in garden lawn or soft ground by means of the spike. Adjust the knob at the back of the panel and make the panel face the sun.
- 8) Make sure to place the pump fully underwater when the pump operates.
- 9) The solar pump is now ready to operate.



4. CAUTIONS

- 1) Any altering of the product itself or changing of the components voids warranty.
- 2) Do not connect the pump to any AC voltage power directly; it's ONLY for DC voltage power.
- 3) Operate the pump in freshwater only (never above 40°C), especially keep it away from flammable liquids.
- 4) Do not strike the solar panel.
- 5) Do not let the pump run dry.

5. CLEANING AND MAINTENANCE



If after some time the pump starts losing power or stops working, please clean up sediment in the pump shell or filter cribs.

Please note the pump can be opened by pressing down at the bottom of the filter housing (See the above photo for demonstration).

To clear the impeller, open the pump housing at the front by sliding up the front plastic cover.

***The solar module should only be cleaned with soft tissue or glass cleaning solution.**

6. FUNCTIONALITY PROBLEMS

*Pump does not operate even though the solar panel is in full sunlight.

- 1). No connection to the solar module—check connection to the solar module.
- 2). Impeller is blocked—to clean the pump, remove the front plate and the impeller, and use a brush or water to remove any debris.

***Pump does operate but there is no water running through the tubes: Clear the tube and the filter to make sure the tube is through completely.**

7. TECHNICAL DATA AND PUMP CURVE

Operation voltage	6 V
Peak power of solar panel	1.5 W
Maximum water lift height	0.5 M (1.64FT)
Maximum flow rate	155 L/H (41GPH)
Cable length	5 M (16.4FT)

