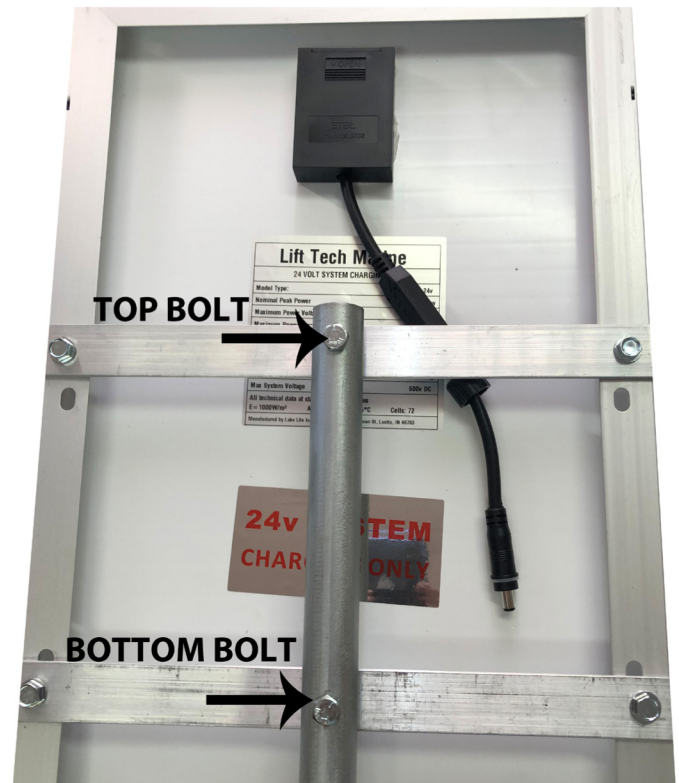
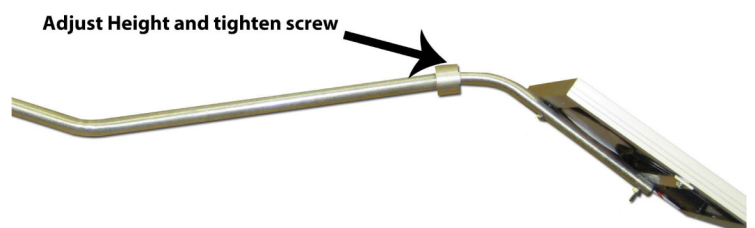


# Solar Panel 12 and 24 Volt Installation Guide

1. Place the upper pole on the back of the solar panel and align the holes.
2. Use the two bolts found in the plastic bag to mount the upper pole to the back of the solar panel. See image on right.
3. Using the hose clamps provided attach bottom pole to post and tighten.
4. Slide upper and lower poles together.
5. Adjust to correct height and tighten screw to secure poles together. Make sure solar panel faces south when installed.
6. Plug wires into to the solar panel and connect to battery with the red end of the wire to the positive post of battery and the black end of wire to the negative post of battery.
7. We recommend purchasing a Charge Controller for your solar panel, so it doesn't over charge your battery when not in use. They are available in a 12 volt and 24 volts.

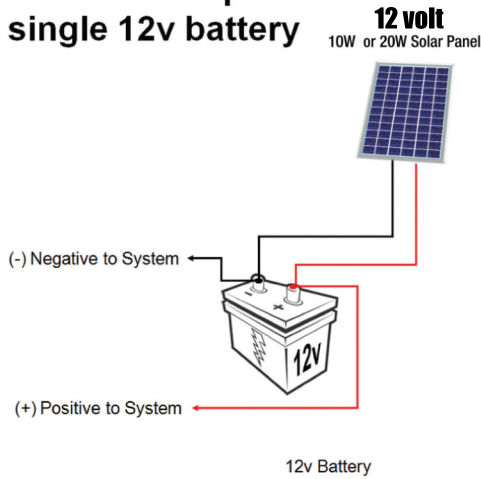


**Note \*** Solar panels will evaporate the water in your battery over time. Check water levels each year to help prevent battery issues. Low water can cause battery explosion. If water level is low add distilled water.



# Solar Panel Battery Install Guide

Single 10 watt 12v solar panel charging a single 12v battery



Single 20 watt 24v solar panel charging two 12v batteries in a 24v configuration

