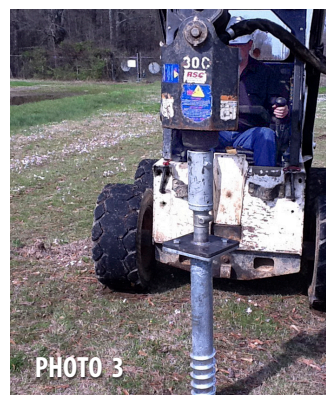


# HOW TO INSTALL FLT SOLAR LED LIGHTS

## What's needed to install ground screws:

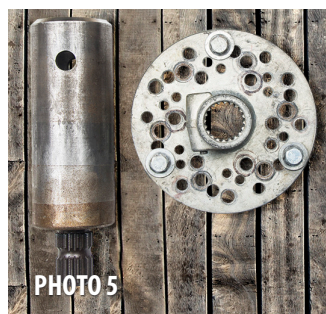
### For SCL and IPL light fixtures and poles:

1. Skid steer with auger attachment with approximately 3,500 foot-pounds of torque capability
2. If the auger drive is a hex-head, you will need a 2" hex to 2 5/16" round adapter. **(Photo 1)**
3. If only installing the SCL/IPL series poles and lights, Ground Connection will provide an adapter that slides into the 2 5/16" male part of the auger adapter and direct connects with three bolts to the plate welded to the top of the screw. This plate exactly matches the bolt circle of the pole base. Ground Connection rents this adapter. **(Photo 2)**
4. Skid steer ready to install screw **(Photo 3)**
5. Once the screw is installed, bolt the pole base to the top of the screw using four 3/4" x 2 1/2" bolts. The Solar LED light can then be easily installed.



### For PLB Bollards

1. Skid steer with auger attachment with approximately 3,500 foot-pounds of torque capability
2. If the auger drive is a hex-head, you will need a 2" hex to 2 5/16" round adapter. **(Photo 1)**
3. Installing bollards requires an adapter that matches the 2 5/16" on the auger or the hex-to-round adapter if the auger head is hex. This adapter has a 2" male spline welded on the end of the adapter that mates with a special multi-hole adapter which has a female spline connection. **(See both adapters in Photo 5).** You may rent these adapters from Ground Connection.
4. Once connected, bolt the adapter to the top plate on the bollard screw which enables the screw to be easily and quickly installed. **(Photo 6)**
5. When the screw is successfully installed, bolt the bollard base to the top of the screw with three 3/8" x 1 1/2" bolts. **(Photo 7)**
6. Complete the installation by connecting the bollard to the bollard base with the three Allen head screws. **(Photo 8)**



### Pre-drilling for hard or extremely dry soils

For hard or extremely dry soils, we recommend that you pre-drill the hole with a 1" diameter drill bit 36" long. Fill the hole with water to soften the dirt. This will also serve to lubricate the screw.

A Hilti hammer drill or equivalent is ideal for this operation. **(Photo 9)** Other types of auger shafts or pre-drill devices can be used.



For more information,  
see our training video at  
<https://vimeo.com/126590583>



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