



# SOLAR STIK™

## HEIGHT ADAPTER KIT



### OVERVIEW

The Solar Stik™ 24 inch Height Adapter Kit is used to extend the Mast assembly during installations where insufficient Mast height exists or will be lost due to the use of the Deck Mount when installed through-the-deck.

The Height Adapter Kit consists of two components:

1. T6061 Brushed Aluminum 24" Mast extension
2. The T6061 Brushed Aluminum internal connector

It is strongly recommended that a qualified metalworking professional install the Height Adapter. The recommended installation method is to weld it to the Solar Stik™ Mast assembly, however, mechanical methods may also be used. Installation methods should be determined according to the application of the Solar Stik™ and the stress loads that it will be subjected to. For example, if the Solar Stik™ is erected and used on a boat while only at anchor, then a mechanical connection of the Height Adapter to the Mast is acceptable; however, if the Height Adapter is to be used on a more permanent installation where it may be subjected to severe loads such as rough seas, then the preferred method of installing it would be to weld it to the Mast.

Only one Height Adapter Kit may be used on a Solar Stik™ Mast. If additional height is still required, please contact the Technical Support Department to discuss the available options for your particular installation. The Tech Support Division contact information is on the next page.

## ⊗ Installation Precautions:

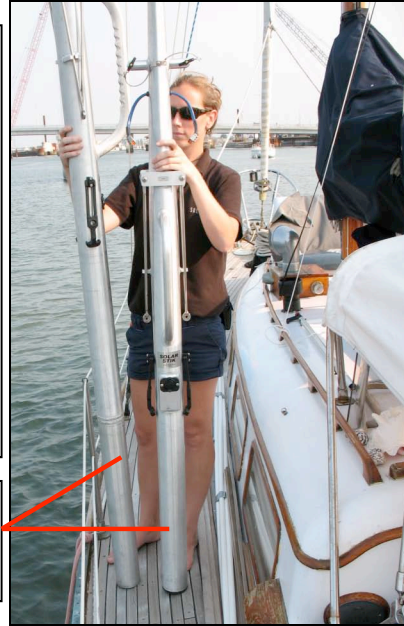
It is highly recommended that additional support and/or reinforcement be added to the System's Mount if the Height Adapter Kit is installed onto a Solar Stik™ Mast. For example, the Marine Brace Kit should be installed to the Transom Mount if the Height Adapter is installed.



Once it is installed, the Solar Stik™ Mast will be 111" tall.

The Height Adapter may be shortened if a desired maximum height is less than this. For example, if the desired Mast length is only 100", then 11" of the Height Adapter may be removed.

Photo of before & after the installation of the Height Adapter Kit



Some important things to remember when installing the Height Adapter Kit to the Solar Stik™ are:

- Do not extend the Solar Stik™ beyond reasonable manual operating height. This will make manual maneuvering of the solar panel arms more difficult.
- If permanently attached by welding, storage of the Solar Stik™ in its new length must be taken into consideration.
- Be sure to consider the stress loads that the Solar Stik™ mount may experience due to the new height. The loads will be directly felt in the mounting, so if the mounting is inadequate to handle the extra loads, then failure may occur. Consult a professional metalworker when determining if reinforcement of the mount installation is necessary.
- Remove the Mast bearing plate by using a screwdriver to pry the bearing plate from the bottom of the Mast. Re-install onto the bottom of the Height Adapter when complete. A strong adhesive may be used if the bearing plate does not "snap in" to the new location.
- If welding is necessary, remove all wiring and rubber/plastic components from the Solar Stik™, before welding Mast and Height Adapter. Be sure that the weld beads will not prohibit insertion of the Mast into the mount.
- The Height Adapter is structural, and becomes an integral part of the Mast once installed. Any Solar Stik™ Mast with a Height Adapter must be installed into the mount so that 24 inches of the newly modified Mast assembly are located inside the mount. The Mast's bearing plate must be in full contact with the bottom of the mount.

Solar Stik™, Inc. will not be held liable for improper installation or any damage to corresponding equipment as a result of poor installation or methods.

TECHNICAL SUPPORT LINE: 800-793-4364 (available weekdays 7AM to 7PM EST and Sat - Sun 9AM to 4PM EST)

ADDRESS: Solar Stik™ R&D Facility  
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**For more information, visit the website at [WWW.SOLARSTIK.COM](http://WWW.SOLARSTIK.COM)**

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