

Information Bulletin #2023-1

Problem: Incorrect assembly and disassembly sequence.
Solution: Follow the correct sequence, detailed below.
Equipment: All wind generators.

1. The cause(s).

During the initial assembly of the wind generator or during maintenance of the system, if the correct procedure as detailed in the user manual is not adhered to, damage to the charge controller or the generator itself may occur.

Installers of this equipment must pay close attention to the correct sequence of assembly/disassembly of the equipment, otherwise it is highly likely that a malfunction will occur in the charge controller or, if the wind generator is left uncontrolled for a long period, in the wind generator.

NB: Please read the User manuals and refer to the assembly process as detailed there.

2. Consequences.

- **Damaged Charge controller**

The charge controllers must always be connected to the batteries if the wind generator or solar panels are producing energy.

This is to allow the current to flow immediately to the batteries, otherwise the charge controller will quickly overheat and will be damaged.

- **Damaged wind generator**

Although this is a rare occurrence, the wind generator can also overheat and become damaged.

When disconnected from the batteries and if there is wind, it will spin uncontrollably and the energy that is being produced will have nowhere to flow.

3. Solution

Follow the correct assembly and disassembly sequence.

Assembly sequence

1. Connect the charge controller to the battery bank.
2. When assembling the Wind generator on the mast pole, if there is enough wind speed when connecting the Silentwind generator this will immediately generate electric power. Therefore, we recommend lashing the Silentwind generator blades with a rope before connecting the wires to the Hybrid Boost Charge Controller. The alternative is to install the blades with the HUB last.
3. Install solar panels (if available) - Whether solar panels are installed before the wind generator or at the end makes no difference to the operation of the controller.

Disassembly sequence

1. Put the wind generator into Brake ON mode. Securely fasten the blades with a suitable rope. Disconnect the wind generator (and solar panels if fitted) from the charge controller, ensuring you safely protect the wires ends of the solar panels (if available) to avoid any electrical short.
2. On the Wind Generator, one of the alternatives instead of blocking the blades, is to remove the 3 AC wires from the charge controller and shunt them together (you can use electrical tape).
3. Disconnect the charge controller from the batteries.



**It is essential to read the user manuals before assembling or disassembling the equipment.
This document does not replace the information contained in the user manuals.**