

## Solar 12 panel replacement

Hallman has discontinued the Solar 12 fencer and no longer has solar panels available.

To replace a solar panel on a Solar 12, Hallman suggests the following:

1. Purchase a solar panel from **Canadian Tire**. Hallman suggests the 5.5 Watt panel, part number **11-1884-4**.
2. Mount the panel. The panel may be mounted on the Hallman fencer like the original, but this is not a requirement.
  - ◆ Older Hallman Solar 12 panels are larger, almost square. The mounting bracket for older fencers may be drilled to fit the holes on the Canadian Tire panel.
  - ◆ Newer Hallman Solar 12 panels are half as tall as they are wide. Use a piece of plywood between the fencer and the panel. Cut the plywood large enough to allow for the bolt pattern on the solar panel. Bolt the plywood to the fencer first; countersink the bolt heads so they are flush with the plywood. If you do not, you risk cracking the solar panel when bolting it to the plywood.
3. Connect the wires.
  - a. Cut off the old cable close to the broken solar panel.
  - b. Strip the ends of the red and black wires.
  - c. Cut the cable on the new solar panel to the desired length and then strip the red and black wires.
  - d. Use crimp connectors (available in Canadian Tire) to connect the red wire from the fencer to the red wire of the solar panel. Repeat for the black wires.

If the old fencer wires are damaged, you may join the black and red wires from the new solar panel to the black and red wires connected to the battery inside the fencer.