

## Police Cruiser Solar Module Installation Instructions and Troubleshooting Guide

**\*Two people are required for optimal installation**

### Step One:

- Properly clean the application surface and the magnetic backing of the solar module using an alcohol based cleaning solution.

### Step Two:

- If the vehicle has an antenna on the roof cutting will be necessary. If it does not, proceed to step three.
- The middle section of the module is designed to be cut for any antenna configuration. Using a sharp razor knife cut out the appropriate spot on the module so that it can be easily lowered onto the vehicle.
- See Figure 1.1 for details.

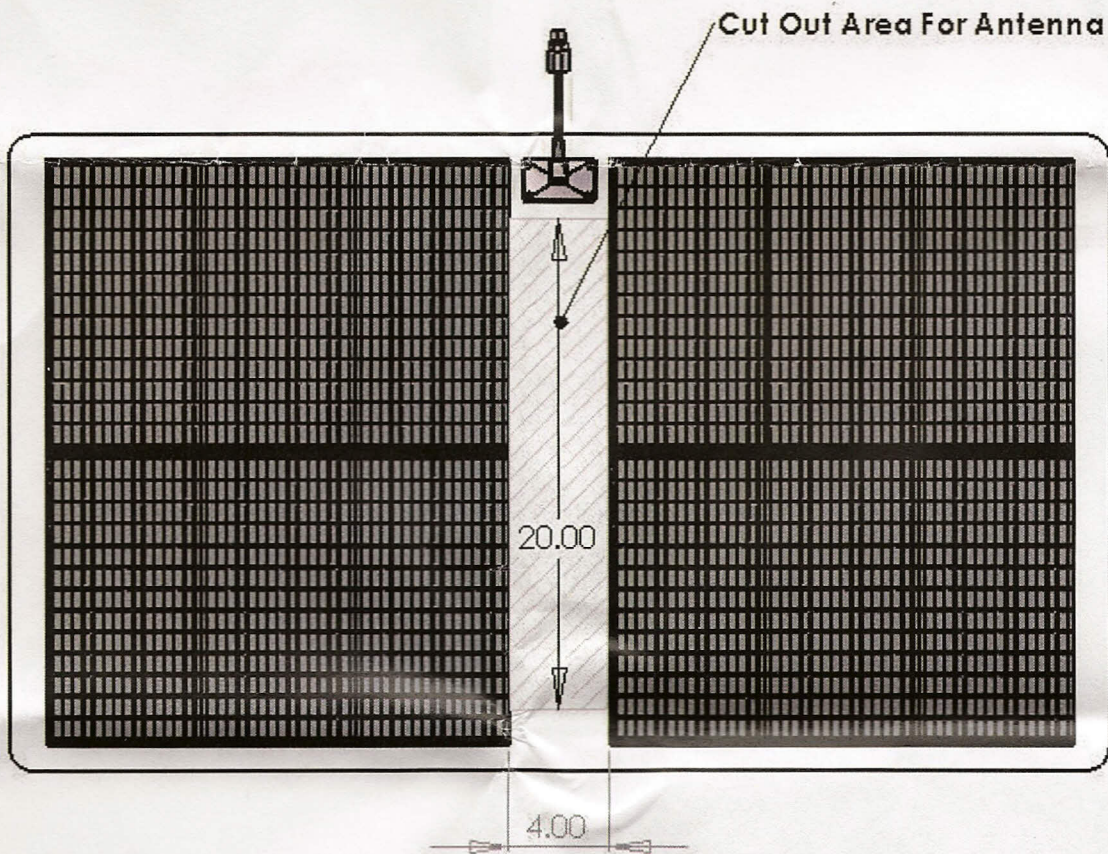


Figure 1.1

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**Step Three:**

- Using two people on opposite ends of the solar module, center the middle of the solar module above the vehicles roof surface without engaging the magnetic backing with the surface of the vehicle. **Note:** *Junction box and quick connector should be facing the light bar.*

**Step Four:**

- Once positioned correctly engage the magnet backing beginning in the center of the module gradually laying the panel flat from middle to the outer edges.
- In the event the module needs to be repositioned, fully disengage the module from the surface of the vehicle. Begin with step two once again until pleased with the position of the module on the vehicle surface.

**Step Five:**

- Once the module has been positioned, using your hand, smooth the surface of solar panel from middle to the outer edges.

### Wiring Instructions

**\*Technician responsible for installation and maintenance of the light bar should perform wiring**

**Step One:**

- Run wiring through existing access port on the underside of light bar.

**Step Two:**

- Thread included wire through light bar to main circuit board

**Step Three:**

- Checking for correct polarity (red to red, black to black). Plug solar module wires in tandem with the main circuit board inside the light bar. **Important** – *solar module must have direct contact to the battery via the light bar circuit board.*

**Step Four:**

- Secure any loose and/or excess wiring to the light bar using a standard zip tie.

## Addition Information

### Included with the Police Solar Module:

- (1) 45.00 X 26.00 Solar Module with magnetic backer
- (1) Junction Box with quick connector- attached to the solar module
- (1) 30" Pig Tail with Weatherpak Connector End

### Troubleshooting:

1.) The magnet is not sticking securely to the vehicle:

- Fully remove the solar module and clean surface of the vehicle and magnet backing with an alcohol based cleaning solution and re install.

2.) Weatherpak Connectors do not fit together:

- Check that connectors are facing the right direction
- Check that the pins are not bent or damaged.

### Maintenance:

- 1.) Periodically remove the solar module and clean the magnetic backing and the application surface with an alcohol based solution. Waxing of the application surface will also provide protection against minor rusting on the vehicle surface and ensure a proper magnetic attraction between the module and vehicle.
- 2.) To clean the top (solar panel side) of the module, simply wipe the surface down using a soft cloth and a mild soap solution.