

## Solar Panel with Battery Box Assembly and Setup

### Introduction

1. Assemble the Battery Box, as follows:
  - a. Ensure the “On”/“Off” toggle switch on the Battery Box’s lid is in the “Off” position.
  - b. Place a standard 13V nominal vehicle battery inside the Battery Box case.
  - c. Securely connect the Battery Box’s black cable loop connector to the battery’s negative terminal.
  - d. Securely connect the Battery Box’s red cable loop connector to the battery’s positive terminal.
  - e. Place the lid of the Battery Box case over the battery and bottom case.
  - f. With the included strap, secure the Battery Box’s lid to the bottom.



2. Connect the Power over Ethernet (POE) injector (p/n: KA700-01-03) to the relay tower base, as follows:
  - a. With the P403 & P404 side facing up, use a #2 or #3 Phillips driver to secure the integrated POE Injector's pipe clamps around the relay tower's mast just above the tripod base.
  - b. Connect CBL-088 from the Radio Enclosure's "POE" port to the POE Injector's "P404"/"POE" port.

**CAUTION**

The Radio Enclosure's "POE" and "Enet" ports both accept standard Cat5e cables; however, the ports themselves are NOT interchangeable. Connecting a POE source to the "Enet" port WILL damage the Radio Enclosure, and WILL require repair by Kairos Autonomi personnel.

- c. Connect CBL-085 to the POE Injectors "P401"/"Power" port.



3. Connect the Solar Panel (p/n: MCA-00054) with Battery Box (p/n: MCA-00053) to the relay tower base, *as follows*:
  - a. Determine the tripod leg on which the Solar Panel will be secured and at what angle (e.g., rotational angle - relative to the leg). For most installations this will be the southernmost position.
  - b. Use a #2 or #3 flathead driver to secure both Solar Panel hose clamps to the selected tripod leg with the Solar Panel at the chosen angle.
  - c. Position the prepared Battery Box unit (from step 1) near the tripod leg with the Solar Panel (e.g., immediately behind the Solar Panel).
  - d. Connect CBL-086 from the Solar Panel's cable to the Battery Box's "Solar Panel" port.
  - e. Verify CBL-085 (from step 2.c) is coming from the POE Injector's 'POE' port ([see previous CAUTION](#)) then connect CBL-085 to the Battery Box's "Load" port.

