

## How to Install an Alti-Force GPS Expander Board into your SP30 case

### To modify your SP30 case:

1. Open the case by gently pushing outward on the 4 clips. Separate the front and back pieces of the case.

Note easiest method: place camera mating side (front) with connector on a table and start with 2 clips at connector end. Push down gently while pushing outward on the clip and the case will begin to separate.



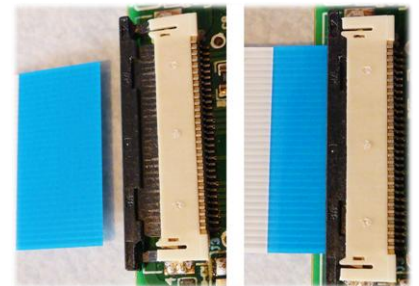
2. Insert the hole template inside the back piece (the piece without clips), aligning the black edge marks with the matching case features.

3. Mark and drill holes at the indicated locations and sizes. Power LED and GPS Lock are optional, insert LED light pipes from the outside of the case.

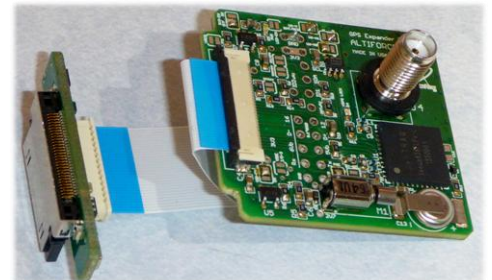


### To install your GPS Expander Board:

1. Insert the Flat Flex Cable (FFC) into the connector on the GPS Expander Board. To do so, extend the connector slide lock (black part), insert the FFC with silver contacts side toward the board and blue side away; hold the FFC fully inserted and push the slide lock in to secure the FFC.



2. Insert the other side of the FFC into the white port on the main SP30 circuit board with the silver contacts side down (toward closest circuit board edge) and blue side up, as pictured.



- 2a. Bend the FFC into an S-shape under the expander board, so the boards fit in the case for step 3 below. Skip this step if the FFC is pre-shaped for you.

3. Install circuit boards into case being careful to properly seat them in their correct position. Be sure the SMA antenna connector has a black ring installed, then close the case by snapping the case pieces together. Spin the nut on the SMA connector until it touches the case plus ~1/8 turn - do not over-tighten.



### EB33 Hole Template

