



15540 Woodinville-Redmond Rd NE  
Building A, Suite 800  
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FREEFLYSYSTEMS.COM

Date Released: September 8, 2015

Date Effective: September 3, 2015

Subject: WiFi Antenna Routing

Effectivity: ALTAs shipped with downward routed WiFi Antenna

Require Action: Reroute WiFi antenna to prevent damage

Time of Compliance: As soon as practicable

## INTRODUCTION

This Service Bulletin (SB) is being issued to advise you of a concern on ALTAs of the routing of the WiFi antenna. Applying this SB is recommended for all affected ALTA operators.

This SB is only being sent to affected ALTA operators.

## BACKGROUND

The original routing of the WiFi antenna placed it through a hole in the bottom of the GPS/Compass module. This routing has been found to cause inadvertent damage to the antenna, especially when ALTA is stored in the included Pelican case.

## RECOMMENDATIONS

Freefly recommends affected ALTA operators to reroute the WiFi antenna through the opening in the GPS/Compass module used for the main wire bundle. A kit containing threadlocking compound, silicone sealant, the required hex driver, zip-ties and replacement cover plate screws is being sent to affected ALTA operators.

Affected ALTAs without the SB performed are suitable for flight.



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## METHOD OF COMPLIANCE

Freefly is sending a tool kit required to complete the modification. Additionally, Freefly has made available to affected ALTA operators a video that demonstrates the modification procedure at the following link: <https://vimeo.com/138358467> (password GPS). Although the pictures and video show the GPS module removed from ALTA, removal of the GPS/Compass module is not necessary to complete this modification.

Step 1: Remove the rubber microSD card cover

Step 2: Using a .050" allen driver, remove the four (4) screws holding the GPS/Compass module cover plate

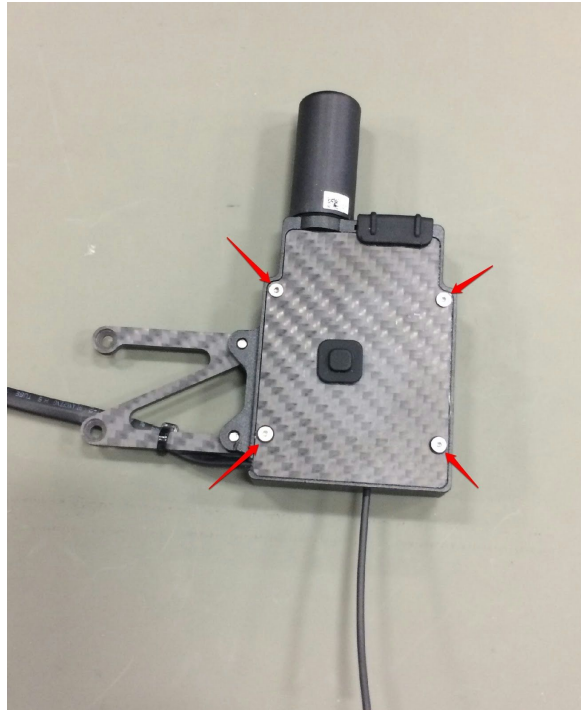


Figure 2: GPS/Compass module cover plate fastener locations

Step 3: Remove the cover plate by carefully prying up directly on the back of the plate. Use caution not to pinch the wires that are located behind the plate.

Step 4: Clean the cover plate of silicone.



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**Step 5:** Carefully back the antenna through the hole and into the case so it can rest on top of the enclosure. Use caution not to damage the antenna while pulling it through the hole.

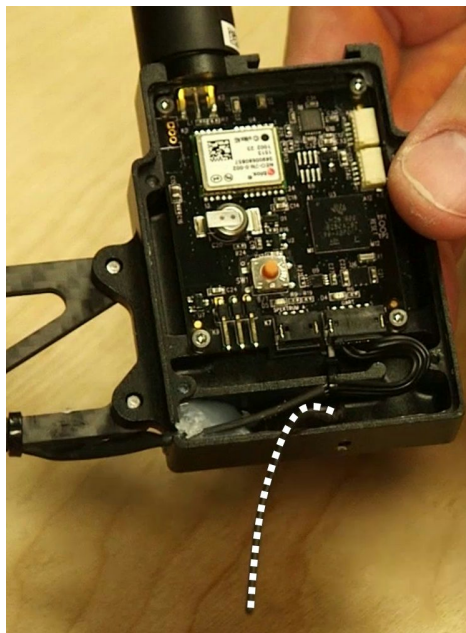


Figure 5: Antenna removed from enclosure hole

**Step 6:** Route the antenna on the wire bundle exiting the enclosure at the side of the case. The antenna will exit the case with the wire bundle when complete.

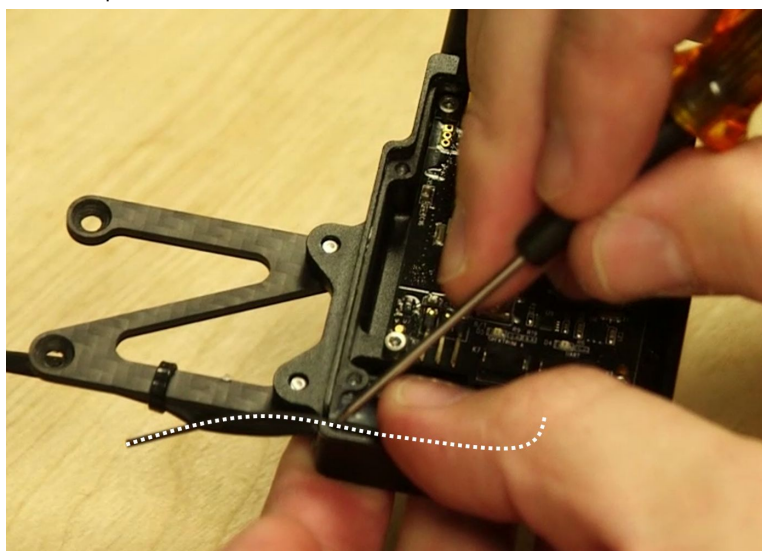


Figure 6: New WiFi antenna routing

**Step 7:** Apply a bead of silicone sealant to the top of the antenna to seal out the opening on the side of the case.



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**Step 8:** Apply a thin bead of silicone sealant to the lip of the GPS module where the cover plate attaches (see Figure 6).

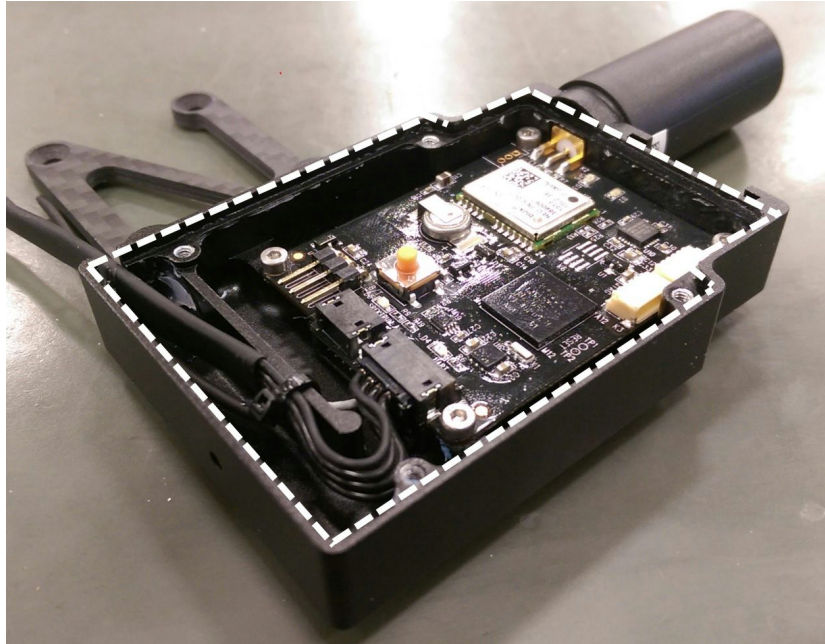


Figure 8: Silicone sealant application area

**Step 9:** Reattach the GPS/Compass module cover plate using the original screws.

**Step 10:** Wipe clean any silicone squeeze out using a lint-free cloth.

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