



15540 Woodinville-Redmond Rd NE
Building A, Suite 800
Woodinville, WA 98072

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SB16 ALTA 6 REPLACEMENT BOOM CLIPS

Date Released: 20-October-2016

Subject: ALTA 6 Boom Clips

Effectivity: ALTA 6 produced before July 2016

Require Action: Optional

INTRODUCTION

This Service Bulletin (SB) is being issued to announce the availability of replacement boom retention clips for ALTA 6. No action is directly required as a result of this SB.

This SB is being issued to affected ALTA 6 owners.

BACKGROUND

The ALTA 6 includes boom retention clips that can be latched to keep the booms neatly folded for storage and transportation. The base material of these retention clips was made using a hard plastic. Freefly has found that the carbon fiber booms can be cracked if they sustain a hard impact with the boom clips. A workaround solution was implemented by wrapping a thick rubber band around the boom in order to absorb energy during hard impacts.

DISCUSSION

A newly designed boom retention clip is now available. The new design includes a soft thermoplastic cap that is overmolded on the boom retention clip. This soft thermoplastic absorbs impact energy and prevents damage to the ALTA 6 due to rough handling when the ALTA 6 is folded.

The overmolded boom clips will be made available to all ALTA 6 owners free of charge along with your next purchase from Freefly. Simply contact Customer Support when making your next purchase, and we will include a set of replacement boom retention clips and associated hardware with your shipment.



Old style boom clip (left), and new, replacement style (right)

RECOMMENDATION

Replacing the boom clips is a preventive action and is optional at the discretion of the customer.



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INSTALLATION INSTRUCTIONS

The following set of instructions describes how to replace the boom retention clips. It is important to follow the instructions as-written in order to ensure the motor alignment will not be affected.

It is normal for the the booms to feel tight in the new boom clips. The soft overmolded material is designed to compress and form around the boom to prevent large shocks and movement of the boom during rough handling.

The boom clip assembly consists of the stationary base, toggle latch, and a small spring.

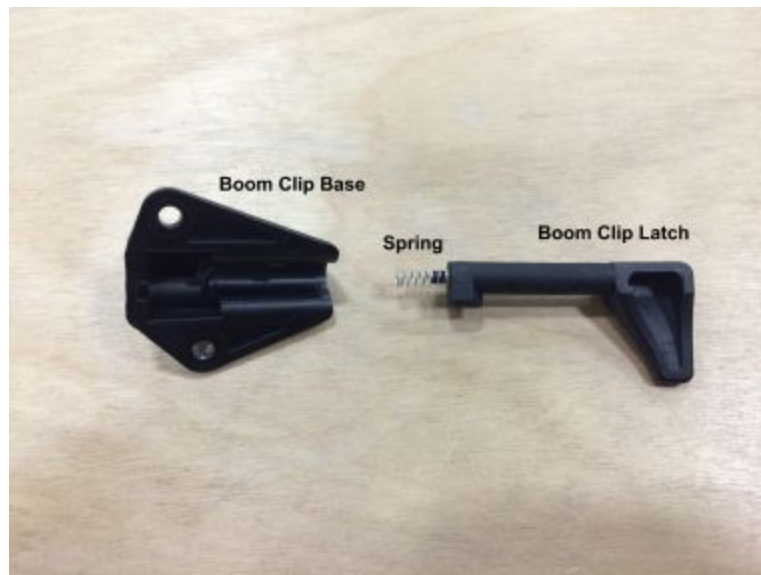
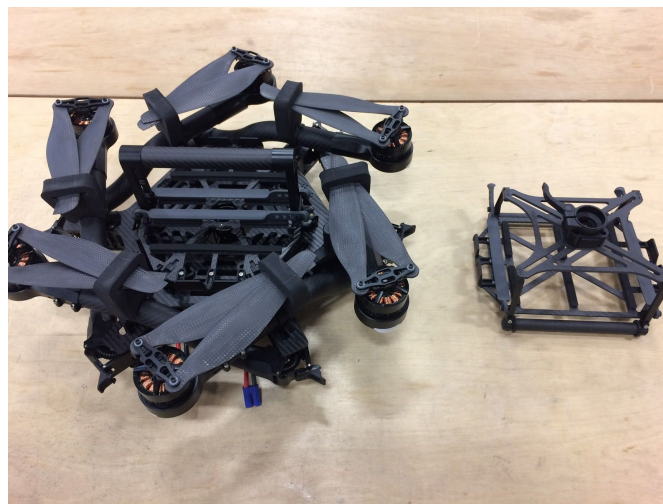
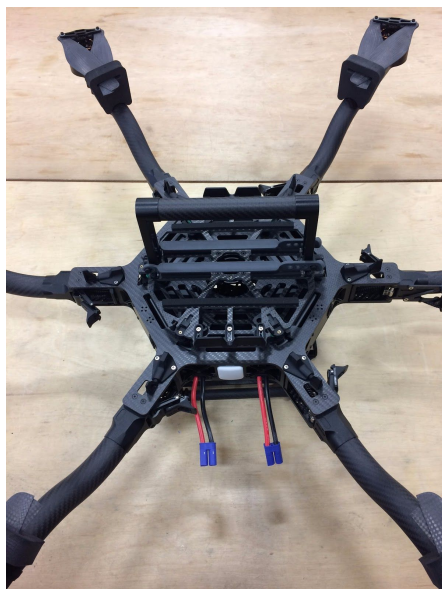


Figure 1. Components in Boom Retention Clip assembly.

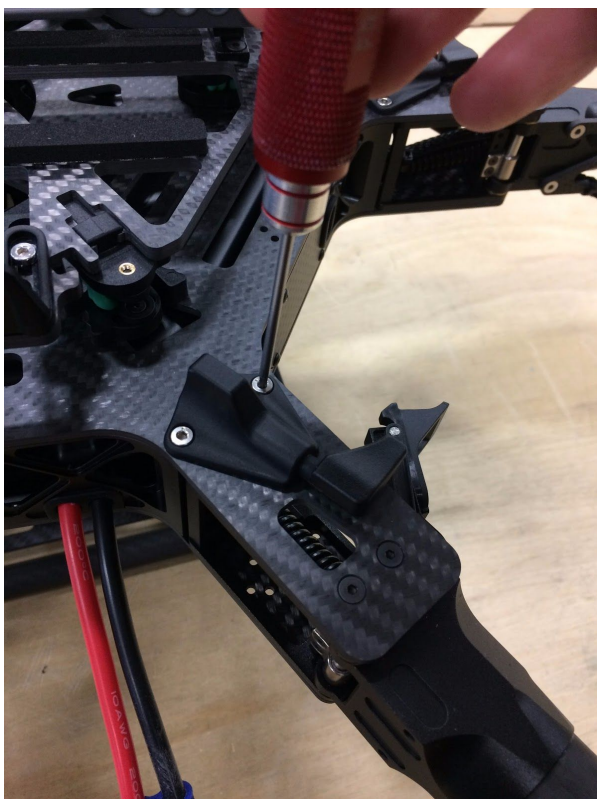
1. Set the ALTA on the inverted landing gear or other stable work platform.



2. Toggle all boom clip latches down. **Fully extend all booms.** Hinge latches may be either opened or closed.



3. **Working one-at-a-time**, remove the boom clip from the chassis using a 2.0mm hex driver. Use care to prevent stripping the fasteners.





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4. Using your thumb to cover the spring from flying out, unclick the boom clip latch from the base by forcing it past the small interlocking teeth.



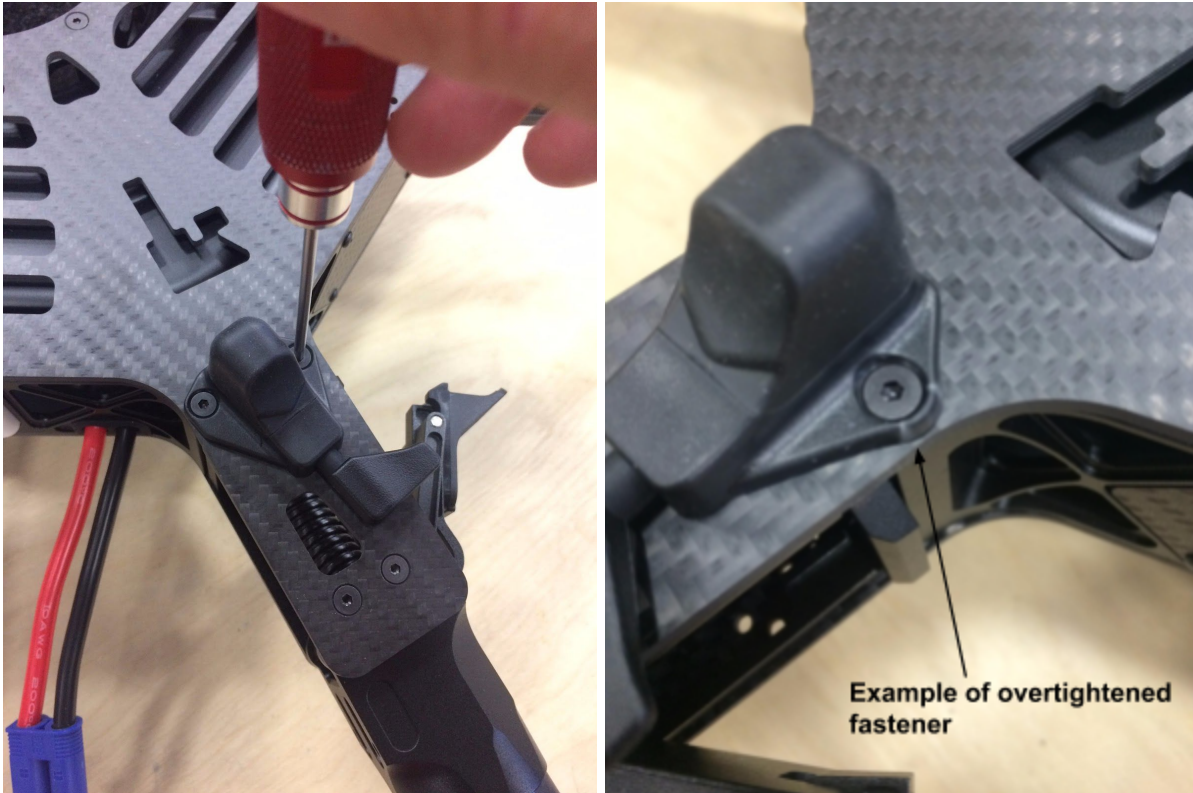
5. Keep the spring centered on the centering post of the toggle latch.



6. Install the latch & spring into the replacement base by positioning the spring into the base, compressing the spring, and clicking the latch into the interlocking teeth of the base.



7. Install the assembled boom clip into position using 2x new flat head fasteners. Snug the fasteners by hand.
 - a. **Do not use threadlocker** on these fasteners as it can degrade the physical properties of the new boom clip material
 - b. **Use caution not to overtighten the fasteners**, to prevent cracking the boom clip base



8. Repeat steps 3-7 for the remaining 5 boom clips. Remember to swap the boom clips one-at-a-time!



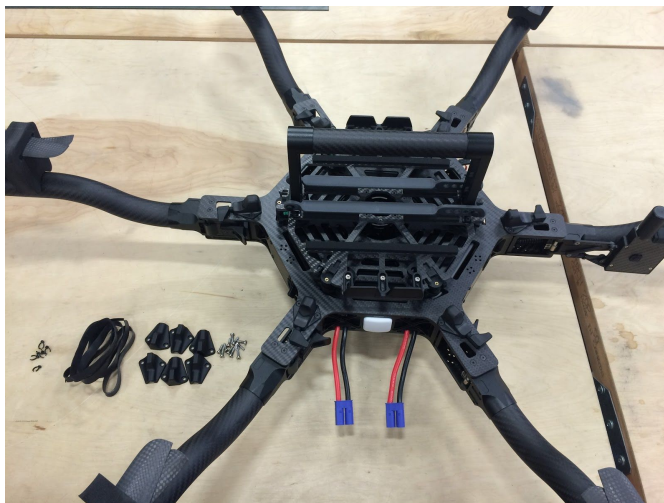
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9. Clip the rubber bands off the booms.



10. Discard the old boom clips, fasteners, and rubber bands.



For Service Information Contact:
Freefly Customer Support
Email: support@freeflysystems.com
Phone: +1 (425) 485-5500
Hours of Operation: M-F 8am-6pm PST