

1.0 Purpose

The purpose of this document is to provide the test procedure for the assembly, fitment, and basic functionality of the Growth Innovations Adjustable Pitch Propeller (GIAPP).

2.0 Scope

This document applies to the GIAPP assembly.

3.0 Relevant Documentation

- 3.1 Growth Innovations Adjustable Pitch Propeller Final Design Report Fall 2005. (Current Standing Revision)
- 3.2 Appropriate Test Protocol

4.0 Safety Considerations

- 4.1 Some parts are heavy and/or sharp take proper measures to ensure personal safety.

5.0 Procedure

- 5.1 Insert and fasten the Bushing into the base of the upper hub section
- 5.2 Assemble the mid and lower hub sections to the base of the upper hub section
- 5.3 Insert the Rotation tool through the top of the upper hub section such that it is completely at the base of the slot.
- 5.4 Using the provided small screws, fasten a blade into one of the stub shaft assemblies.
- 5.5 Repeat step 5.4 for the other stub shaft assembly.
- 5.6 Insert the stub shaft and blade sub assemblies into the holes in the upper hub section making sure to align the stub shaft pins with the rotator tool track.
- 5.7 Fasten the hub top to the upper hub section using the 4 guide screws.
- 5.8 Check for free rotation of the top hub section relative to the lower hub sections.
- 5.9 Advance and retract the rotation tool and check for a smooth and roughly 90 degree rotation of the blades.

6.0 Acceptance Criteria

- 6.1 Refer to applicable Test Protocol.