Ground Testing

Date completed:__________________________

Performed by:___________________________

Specifications Tested

<table>
<thead>
<tr>
<th>Tested Specification</th>
<th>Description</th>
<th>Critical Value</th>
<th>Nominal Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2</td>
<td>The landing gear shall hold the plane at an optimal angle of attack while on the ground</td>
<td>6 degrees</td>
<td>6 degrees</td>
</tr>
<tr>
<td>3.3</td>
<td>The aircraft shall be able to navigate while on the ground</td>
<td>20 ft radius &amp; Straight line</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>The propulsion system must be able to develop a peak of 20 lbs static force</td>
<td>20 lbs</td>
<td>25lbs</td>
</tr>
<tr>
<td>6.3</td>
<td>The aircraft shall be able to be transported in a motor vehicle when disassembled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.4</td>
<td>The aircraft should be easy to assemble and disassemble by one person</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Document Created</td>
<td>3/17/2010</td>
</tr>
</tbody>
</table>

Equipment

- Fully assembled plane
- Radio
- Spring scale
- Measuring tape

Sections

- Part I Assembled static thrust
- Part II Ground maneuvering- Tarmac
- Part III Ground maneuvering- Grass
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**Part I Assembled static thrust**

_____ 1. Transport the plane to an open tarmac

_____ 2. Fully assemble the plane and all required electronics

_____ 3. Attach spring scale to planes tail and throttle up the plane to full throttle.

_____ 4. Verify that the max static thrust is above 20 lbs

<table>
<thead>
<tr>
<th>Static thrust (pounds)</th>
</tr>
</thead>
</table>

Sign off on section completion before continuing:_________________________________
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Part II Ground maneuvering - Tarmac

_____ 1. Transport the plane to an open tarmac

_____ 2. Fully assemble the plane and all required components

_____ 3. Verify proper control response by actuating each servo channel and visually inspecting the corresponding servo movement

_____ 4. Measure the plane's angle of attack on the ground, and verify that it matches the desired 6 degrees.

_____ 5. Taxi the plane in a circle, measuring the tightest turn possible.

_____ 6. Taxi the plane in a figure-of-eight.

_____ 7. Taxi the plane in a straight line. The plane must be able to maintain this straight line within a 5 ft path.

<table>
<thead>
<tr>
<th>Turning radius (feet)</th>
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**Part III Ground maneuvering- Gras**

_____ 1. Transport the plane to an open grass field

_____ 2. Fully assemble the plane and all required components

_____ 3. Verify proper control response by actuating each servo channel and visually inspecting the corresponding servo movement

_____ 4. Measure the plane's angle of attack on the ground, and verify that it matches the desired 6 degrees.

_____ 5. Taxi the plane in a circle, measuring the tightest turn possible.

_____ 6. Taxi the plane in a figure-of-eight.

_____ 7. Taxi the plane in a straight line. The plane must be able to maintain this straight line within a 5 ft path.

<table>
<thead>
<tr>
<th>Turning radius (feet)</th>
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Additional comments

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