

51% Amateur Determination Checklist

<u>Builder Name:</u>		<u>Address:</u>	
Aircraft Type:		Serial No.:	
Aircraft Model:		Parts List Date:	
<b>FUSELAGE</b>		<b>Accomplished by:</b>	
		<b>Other</b>	<b>Builder</b>
1. Fabricate special tools or fixtures			
2. Fabricate longitudinal members, Cores, or Shells			
3. Fabricate bulkheads or cross- members			
4. Assemble fuselage basic structure			
5. Fabricate brackets and fittings			
6. Install brackets and fittings			
7. Fabricate flight control system components			
8. Install flight control system components			
9. Fabricate cables, wires and lines.			
10. Install cables, wires and lines			
11. Fabricate fuselage cover or skin			
12. Install fuselage covering or skin			
13 Fabricate windshield, windows, canopy			
14. Install windshield, windows, canopy			
<b>WINGS</b>		<b>Other</b>	<b>Builder</b>
1. Fabricate special tools or fixtures			
2. Fabricate wing spars			
3. Fabricate wing ribs or cores			
4. Fabricate wing leading and trailing edges			
5. Fabricate drag/anti drag truss members.			
6. Fabricate wing brackets and fittings			
7. Fabricate wing tips			
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<b>WINGS (Continued)</b>	<b>Other</b>	<b>Builder</b>
8. Assemble basic wing structures		
9. Install wing leading/trailing edge and tips		
10. Install wing ailerons		
11. Install wing drag/anti drag truss		
12. Fabricate wires, cables and lines		
13. Install cables, wires and lines		
14. Fabricate flight control system components		
15. Install flight control system components		
16. Fabricate wing covering or skin		
17. Install wing covering or skin		
18. Fabricate wing struts / wires		
19. Install and rig wings and struts		
20. Fabricate wing flaps and spoilers		
21. Install wing flaps and spoilers		
<b>AILERONS</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate Aileron Spars		
2. Fabricate Aileron Ribs or cores		
3. Fabricate Aileron Leading and Trailing edge		
4. Fabricate Aileron brackets and fittings		
5. Assemble basic aileron structure		
6. Install leading/trailing edge and tips		
7. Install aileron fittings		
8. Fabricate aileron covering or skin		
9. Install aileron covering or skin		
10. Install and rig wings and struts		
<b>PROPULSION</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate special tools or fixtures		
2. Fabricate engine mount		
3. Fabricate engine cooling system/baffles		
4. Fabricate induction system		
5. Fabricate exhaust system		
6. Fabricate engine controls		
7. Fabricate brackets and fittings		
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<b>PROPULSION (Continued)</b>	<b>Other</b>	<b>Builder</b>
8. Fabricate cables, wires, and lines		
9. Assemble engine		
10. Install engine and items listed above		
11. Fabricate engine cowling		
12. Install engine cowling		
13. Fabricate propellor		
14. Install propellor		
15. Fabricate fuel tank		
16. Install fuel tank		
17. Fabricate fuel system components		
18. Install fuel system components		
<b>HELICOPTER MAIN ROTOR DRIVE SYSTEMS &amp; CONTROL MECHANISMS</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate special static and dynamic main rotor rigging tools		
2. Fabricate / assemble main rotor drive train		
3. Install main rotor drive train assembly		
4. Fabricate / assemble main rotor shaft and hub assembly		
5. Install main rotor shaft and hub assembly		
6. Align main rotor shaft drive train, shaft and hub assembly		
7. Fabricate main rotor rotating controls		
8. Install main rotor rotating controls		
9. Fabricate main rotor non-rotating controls		
10. Rig main rotor rotating and non-rotating controls		
11. Fabricate main rotor blades		
12. Install main rotor blades on rotor hub.		
13. Statically balance and rig main rotor system		
14. Dynamically track and balance main rotor system		
<b>HELICOPTER TAIL ROTOR DRIVE SYSTEMS AND CONTROL MECHANISMS</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate special static tail rotor rigging tools		
2. Fabricate vertical trim fin		
3. Install vertical trim fin		
4. Fabricate horizontal trim fin.		
5. Install horizontal trim fin		
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<b>HELICOPTER TAIL ROTOR DRIVE SYSTEMS AND CONTROL MECHANISMS (Continued)</b>	<b>Other</b>	<b>Builder</b>
6. Fabricate tail rotor drive system		
7. Install tail rotor drive system		
8. Fabricate tail cone or frame		
9. Install tail cone or frame		
10. Rig vertical and horizontal fins.		
11. Fabricate tail rotor shaft and hub assembly.		
12. Install tail rotor shaft and hub assembly.		
13. Fabricate tail rotor rotating and non-rotating controls		
14. Rig tail rotor rotating and non-rotating controls.		
15. Fabricate / Assemble tail rotor blades		
16. Install tail rotor blades		
17. Statically balance and rig tail rotor system		
18. Dynamically track and balance tail rotor system.		
<b>EMPENNAGE</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate special tools or fixtures		
2. Fabricate spars		
3. Fabricate Ribs or cores		
4. Fabricate Leading and Trailing edges		
5. Fabricate tips		
6. Fabricate brackets and fittings.		
7. Assemble empennage structure		
8. Install wing leading / trailing edge and tips		
9. Install fittings		
10. Fabricate Cables, wires, and lines.		
11. Install cables, wires and lines		
12. Fabricate empennage covering or skin		
13. Install empennage covering or skin.		
14. Install and rig empennage.		
<b>CANARD</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate Canard		
2. Assemble Canard		
3. Install and Rig canard.		
<b>LANDING GEAR</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate special tools or fixtures.		

<b>LANDING GEAR (continued)</b>	<b>Other</b>	<b>Builder</b>
2. Fabricate struts		
3. Fabricate braking systems		
4. Fabricate retraction system		
5. Fabricate cables, wires, and lines.		
6. Assemble wheels, brakes, tires, and landing gear		
7. Install landing gear components above.		
<b>COCKPIT / INTERIOR</b>	<b>Other</b>	<b>Builder</b>
1. Fabricate instrument panel		
2. Install instrument panel and instruments		
3. Fabricate Seats		
4. Install seats.		
5. Fabricate electrical system controls / switches		
6. Install electrical system controls / switches.		
<b>TOTALS</b>		
<b>PERCENTAGES</b>		
<b>Does this aircraft meet the requirements of Chapter 549?</b>	<b>Y</b>	<b>N</b>

If you decide to deviate from your current plan, please be sure to contact MD-RA to ensure that your project remains compliant to the requirements of Chapter 549.

Date of Inspection: \_\_\_\_\_

Signatures: \_\_\_\_\_  
Inspector

\_\_\_\_\_  
Builder

Print Names \_\_\_\_\_

\_\_\_\_\_