

Advisory Circular

Subject: CERTIFICATION AND

OPERATION OF

AMATEUR-BUILT AIRCRAFT

Date: DRAFT

Initiated by: AIR-200

AC No.: 20-27F

1. PURPOSE OF THIS AC.

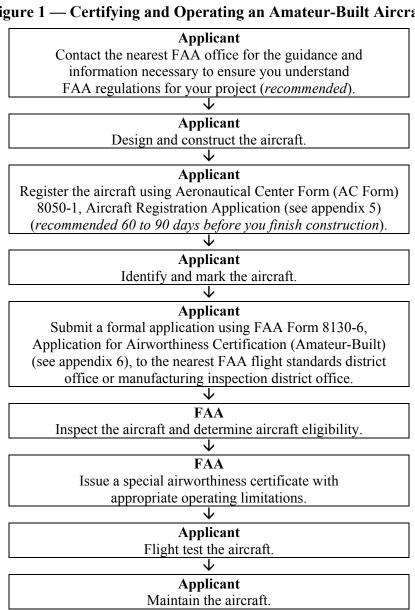
For Review Only

- a. This advisory circular (AC) gives you information and guidance on how to—
 - (1) Fabricate and assemble an amateur-built aircraft,
 - (2) Register your aircraft,
 - (3) Identify and mark your aircraft,
 - (4) Get your aircraft inspected and certified,
 - (5) Test your aircraft,
 - (6) Operate your aircraft,
 - (7) Become a repairman for your amateur-built aircraft, and
 - (8) Receive certification of an amateur-built aircraft purchased outside the United States.
- **b.** This AC is not mandatory and does not constitute a regulation. This AC describes an acceptable means, but not the only means, to comply with the certification requirements for amateur-built aircraft listed in Title 14, Code of Federal Regulations (14 CFR) part 21, Certification Procedures for Products and Parts. However, if you use the means described in the AC, you must follow it in all important aspects.
- **c.** Definitions of terms and sample forms and letters referenced in this AC are located in the appendixes. Lists of 14 CFR parts and publications related to this AC also are in the appendixes.
- **2. WHO THIS AC AFFECTS.** This AC applies to anyone who seeks an airworthiness certificate for an amateur-built aircraft.

3. PRINCIPAL CHANGES FROM THE PREVIOUS VERSION OF THIS AC. This AC has been rewritten in plain language, including the use of more precise wording, descriptive headings, tables, figures, and active voice. This AC also follows the new format described in Federal Aviation Administration (FAA) Order 1320.46C, Advisory Circular System; therefore, the overall organization of the AC has been changed. The substance of the AC has not been changed from that found in AC 20-27E, Certification and Operation of Amateur-Built Aircraft.

- **4. DOCUMENT THIS AC CANCELS.** This AC cancels AC 20-27E, dated September 26, 2001.
- 5. CERTIFYING AND OPERATING AN AMATEUR-BUILT AIRCRAFT. You should follow the steps in figure 1, in general order, when trying to get your airworthiness certificate. A detailed explanation of each step follows this flowchart (see paragraphs 6 through 14).

Figure 1 — Certifying and Operating an Amateur-Built Aircraft



6. WHAT TO DO AND KNOW BEFORE BUILDING AN AMATEUR-BUILT AIRCRAFT.

a. We recommend that before you build your aircraft, you contact the nearest FAA office. Discuss the type of aircraft, its complexity, and its materials. Provide a three-view sketch, drawing, or photograph of the proposed aircraft project and the date you think you will finish. We should give you any guidance and information necessary to ensure you thoroughly understand the FAA regulations that apply to your project.

b. If you request them, we will give you all the forms you'll need to get your aircraft registered and certified. Refer to appendix 4 for a list of forms.

7. DESIGNING AND CONSTRUCTING AN AMATEUR-BUILT AIRCRAFT.

a. Asking Others for Help.

- (1) Contacting the Experimental Aircraft Association (EAA). You can get help from the EAA (see appendix 7 for contact information). The EAA promotes aviation safety and construction of amateur-built aircraft, and provides technical advice and help to its members. EAA's Technical Counselors Program helps to ensure amateur-built aircraft are safe and dependable. EAA Technical Counselors are available to visit an amateur-built aircraft project and offer to its members advice regarding workmanship. However, the EAA has advised the FAA that it does not provide technical help on designing an aircraft.
- (2) Asking Other Persons With Expertise. During construction, you may ask persons with aviation design or engineering experience; other builders; mechanics with aircraft, airframe, and powerplant experience; and other persons with relevant expertise to inspect your aircraft. These persons can inspect the construction of particular components (for example, wing assemblies and fuselages) to verify that an acceptable level of safety has been met.
- (3) Contracting for Commercial Help. You may contract commercially for several tasks, such as installation of avionics, upholstery, and painting. See AC 20-139, Commercial Assistance During Construction of Amateur-Built Aircraft, for detailed information about the types of commercial help you can use.

b. Purchasing Prefabricated or Assembled Components and Materials.

(1) We do not expect you to personally fabricate every part of the aircraft. You may use commercially produced components and materials when constructing your amateur-built aircraft. However, we will not give credit for fabrication of these components. Use the guidelines in the table on the following page, especially for parts constituting the primary structure, such as wing spars, critical attachment fittings, and fuselage structural members.

Type of Component/Material	Guidelines for Use
Any choice of engines, propellers,	We recommend you use FAA-approved components (for example,
wheels, or other components	components produced under a production certificate, a technical
	standard order (TSO), or a parts manufacturer approval).
Any choice of materials	We recommend you use material of established quality (for example,
	materials produced under a military specification, SAE, or AN).
Major components (for example, wings,	You should know whether the components are in a condition for safe
fuselage, and empennage) from	operation. This description refers to the condition of that component
type-certificated or experimental aircraft	relative to structural strength, wear, or deterioration.

- (2) You should not use materials whose identity or quality you do not know.
- (3) You may use FAA Form 8000-38, Fabrication/Assembly Operation Checklist (see appendix 8), as an aid to determine if using certain components would affect the requirement to fabricate and assemble the major portion of your aircraft.

c. Meeting General Design and Construction Requirements.

- (1) Amateur builders are free to develop their own designs or build from existing designs. We do not approve those designs, and it would be impractical to develop design standards for the wide variety of design configurations created by designers, kit manufacturers, and amateur builders.
- (2) We recommend that you use FAA-approved components, especially when you are building parts constituting the primary structure. You should be able to prove the identity and quality of any materials you use.
- **d. Designing the Cockpit/Cabin.** When you design the cockpit or cabin, you should do the following:
- (1) Avoid sharp corners or edges, protrusions, knobs, and similar objects that may cause injury to the pilot or passengers during an accident. If you can't avoid having them, you should pad them.
 - (2) Install FAA TSO-approved seatbelts and shoulder harnesses.
 - (3) Mark and place cockpit instruments and placards so they're easy to see.
- (4) Include a fuel selector so the pilot can control the flow of all tanks. Make sure it's labeled clearly and appropriately.
- (5) Clearly mark system controls, such as the fuel selectors and electrical switches or breakers. Make sure these controls are easy to reach and operate.
- **(6)** Use the sample checklist in appendix 1 to AC 90-89, Amateur-Built Aircraft and Ultralight Flight Testing Handbook, to inspect cockpit instrumentation and systems controls.
 - **e. Designing the Fuel System.** When you design the fuel system, you should do the following:
- (1) Ensure your fuel tank can supply adequate fuel to the engine in all anticipated flight attitudes.

(2) Place a firewall between the engine compartment and the cockpit or cabin if the design allows.

- (3) Ensure the fuel system controls are easy to reach and operate.
- (4) Provide a carburetor heat system to minimize the possibility of carburetor icing if you might fly your aircraft in icing conditions.

f. Building an Aircraft Using a Plan.

- (1) Modifying a Design Plan. If you are working from a design plan and you want to make modifications, you should discuss the changes with the designer, kit manufacturer, or equally knowledgeable person. You should record in your builder's log any modifications you make.
- (2) Buying a Partially Built Aircraft Built From a Plan. If you buy a partially built aircraft built from a plan, you should get all fabrication and assembly records, such as receipts for materials, the builder's log, and aircraft, engine, and propeller logbooks, from the previous owner. You should add the construction efforts of the previous amateur builders to your builder's log to show the construction history of the aircraft. This information may help us to determine that your aircraft is eligible for amateur-built certification.

g. Building an Aircraft Using a Kit.

(1) Kits Eligible for Certification. You should always verify the aircraft will be eligible for certification as an amateur-built aircraft. Advertisements may be somewhat vague and in some cases misleading about whether a kit will produce an aircraft eligible for amateur-built certification. Use the information in the table below as guidance.

Scenario	Eligible	Not Eligible
You are able to show you built the major portion of the aircraft.	X	
The kit you are using or intend to use is one we've evaluated and placed on our listing of eligible amateur-built aircraft kits. (Note: We do not certify nor approve kits, kit manufacturers, or kit distributors. However, we do evaluate kits at the request of the kit manufacturer or distributor, primarily to determine if an aircraft built from a particular kit would meet the major portion requirement. You can contact your local FAA office for the current Web site address of the listing of eligible kits. Kits other than those on the list may produce an aircraft we would certify as amateur-built.)	X	
You have used a construction kit containing raw materials and some prefabricated components. (Note: The raw materials may include lengths of wood, tubing, extrusions, or similar items that may have been cut to an approximate length. We will also accept some prefabricated parts such as heat-treated ribs, bulkheads, or complex parts made from sheet metal, fiberglass, or polystyrene, and precut/predrilled material, provided you fabricate and assemble the major portion of the aircraft as required by § 21.191(g), Experimental certificates: Operating kit-built aircraft.)	X	
You assembled your aircraft from a kit composed of completely finished, prefabricated components, parts, or precut or predrilled materials, and using these materials means you did not fabricate and assemble the major portion of the aircraft.		X
You hired someone to build the aircraft for you and hiring this person means you did not fabricate and assemble the major portion of the aircraft.		X

(2) Modifying a Kit. If you are working from a construction kit and you want to make modifications, you should discuss the changes with the kit manufacturer or equally knowledgeable person. You should record in your builder's log any modifications you make.

- (3) Buying an Aircraft Built From a Partially Completed Kit. If you buy an aircraft built from a partially completed kit, you should get all fabrication and assembly records, such as receipts for materials, the builder's log, and aircraft, engine, and propeller logbooks, from the previous owner. You should add the construction efforts of the previous amateur builders to your builder's log to show the construction history of the kit. This information may help us to determine that your aircraft is eligible for amateur-built certification.
- **8. REGISTERING YOUR AMATEUR-BUILT AIRCRAFT.** Section 21.173, Airworthiness certificates: Eligibility, requires that all U.S. civil aircraft be registered before we issue an airworthiness certificate. Part 47 of 14 CFR, Aircraft Registration, prescribes the regulatory requirements for registering civil aircraft. The procedures for registering an amateur-built aircraft are as follows.
- **a. When To Register.** We recommend you apply for registration 60 to 90 days before you finish constructing your aircraft and before you submit FAA Form 8130-6 to us. This should allow you to get your registration information in time for your FAA inspection.
- **b.** How To Submit Your Application. Submit an application under § 47.33, Aircraft not previously registered anywhere, to the FAA Aircraft Registration Branch (AFS-750) (see appendix 7 for the address). Include the following in the package:
- (1) Documentation that you own the aircraft. You may use AC Form 8050-88, Affidavit of Ownership for Amateur-Built Aircraft (see appendix 9), or its equivalent. The affidavit must state that you built the aircraft from a part or a kit and that the person signing the affidavit is the owner.
- (2) A signed bill of sale from the manufacturer of the kit, if the aircraft was built from a kit. You may use AC Form 8050-2, Kit Bill Sale, but strike out the word "aircraft" and insert the word "kit" (see appendix 10). If you cannot provide a bill of sale for the kit, explain why. If you are not the original purchaser of an uncompleted kit, you must provide to AFS-750 traceability from the kit manufacturer through the previous builder or builders to yourself.
 - (3) A completed Aeronautical Center (AC) Form 8050-1 (see appendix 5).
- (4) A check or money order payable to the FAA for the registration fee. The registration fee is \$5. If you are requesting a special registration number, it is an extra \$10. Therefore, if you submit your registration and request for a special registration number at the same time, the total fee would be \$15.
- (5) A special request letter as described in paragraph 8d, if you want a specific registration number.

c. What To Do With Your Registration Letter. AFS-750 will send you a letter giving the N-number assigned, a blank AC Form 8050-1, and other registration information. This letter is not your aircraft's official registration. You need to complete and return the white original and green copy of AC Form 8050-1 to AFS-750 as soon as you can. If you didn't already send in the registration fee, you must include it with the form. Keep the pink copy for your records until you get your Certificate of Aircraft Registration (AC Form 8050-3). Neither this pink copy nor FAA Form 8130-6 give you temporary authority to operate your aircraft, because your amateur-built aircraft has never been registered or received airworthiness certification. We may consider certifying your aircraft as airworthy once we have verified your aircraft is registered.

d. How to Request a Specific Registration Number.

- (1) If you want us to assign a specific registration number, list up to five possible numbers, in order of your preference (see appendix 11). Your suggested numbers may be three to five characters long, and the last two characters can be letters. There is an additional fee for this service. If you want to see whether your preferred numbers are available, you can contact AFS-750 (see appendix 7 for the address).
- (2) You can reserve a registration number for 1 year; this service costs \$10. If you wish to continue holding this registration number, you must renew this reservation every year and pay \$10 before the end of each 1-year period.

9. IDENTIFYING AND MARKING YOUR AMATEUR-BUILT AIRCRAFT.

- a. When To Mark. Mark your aircraft before you apply for an airworthiness certificate.
- **b. Required Marks.** When you apply for an airworthiness certificate for an amateur-built aircraft, you must show compliance with the identification requirements of § 21.182, Aircraft Identification, and the nationality and registration marking requirements of 14 CFR part 45, Identification and Registration Marking. Part 45, subpart C, Nationality and Registration Marks. AC 45-2, Identification and Registration Marking, provides additional guidance. You should direct any questions to your local FAA office. The office will handle questions individually.
- (1) Identification Information. If you built the aircraft from your design, and the model designation and serial number are not used for any other aircraft, you may use whatever number you want. If you built the aircraft from a plan or a kit, use the identification information provided by the plan designer or kit manufacturer. Make sure the information is the same as you've shown on AC Form 8050-88. Place this information on the identification plate as described in the following table.

Elements of the Plate	Details of Those Elements
Type of plate	Fireproof
Information to put on the plate	 Name of the builder (not the designer, plans producer, or kit manufacturer) Model designation Serial number of the aircraft
How to put the information on the plate	Etch, stamp, engrave, or mark by some other approved fireproof marking method

Elements of the Plate	Details of Those Elements
How to attach the plate	So that it cannot be defaced or removed during normal service, or lost or destroyed during an accident
	So that it is legible to a person standing on the ground
Where to attach plate	On the exterior of the aircraft in accordance with § 45.11, Identification of Aircraft and Related Products: General, as follows: • Adjacent to the aft of the rear-most entrance door, or • On the fuselage near the tail surfaces.

(2) Nationality Designation and Registration Marks. You must paint, or affix by a way that is just as permanent, the N-number on the body of the aircraft. For example, only use paints that need thinners or strippers to remove it, or decals. Do not use tape that can be easily peeled off or water-soluble paint. For the appropriate location of the marks, refer to §§ 45.22 and 45.25 for fixed-wing aircraft and § 45.27 for non-fixed-wing aircraft. For size, follow the guidelines in the table below.

Height of Marks	Type of Aircraft	Other
At least 2 inches	Aircraft with the same external	
	configuration (that is, is a replica) of a	
	small aircraft built at least 30 years ago	
3 inches	Most amateur-built aircraft	
12 inches	Aircraft with a maximum cruising speed	You must also use 12-inch high marks if you
	that exceeds 180 knots calibrated air	will be operating your aircraft outside the
	speed (207 miles per hour)	United States, Canada, or in an Air Defense
		Identification Zone.

(3) "Experimental" Aircraft Designation. Follow the guidelines in the table below to determine whether you need an "experimental" aircraft designation.

If you have a—	Then you—
nonreplica aircraft	must display the word "experimental" on your aircraft in accordance with § 45.23(b). You
	must place the 2- to 6-inch high letters near each entrance to the cabin or the cockpit.
replica aircraft	do not have to label your aircraft "experimental" if it is a replica of an aircraft built at least
	30 years ago. However, in such a case, you must include an "X" between the nationality
	designation and the registration number. For example, the marking on an amateur-built
	replica of an antique aircraft would be "NX1234." You should use the letter symbol
	appropriate to the airworthiness certificate of the aircraft being certificated, not the aircraft
	being replicated.

c. Passenger Warning. You must display the following placard in a readily visible location in the cabin or cockpit, unless your aircraft has only one seat:

"Passenger Warning: This aircraft is amateur-built and does not comply with Federal safety regulations for standard aircraft."

10. APPLYING FOR CERTIFICATION OF AN AMATEUR-BUILT AIRCRAFT. Submit the following documents and information to your local FAA office. You can get all the forms you need from your local FAA office:

- a. FAA Form 8130-6.
- **b.** AC Form 8050-3 (AFS-750 will return this form to you, which you in turn will show it to the FAA inspector at the time the aircraft is inspected).
 - **c.** Sufficient information to identify the aircraft, such as photographs or three-view drawings.
- **d.** A notarized FAA Form 8130-12, Eligibility Statement, Amateur-Built Aircraft, certifying that the major portion of the aircraft was fabricated and assembled for your own education or recreation, and that you have evidence, such as a builder's log or its equivalent, to support this statement (see appendix 12).
- **e.** A program letter in accordance with § 21.193, Experimental certificates (see appendix 13). With the information in this letter, we can prescribe the limitations and conditions necessary to ensure safety. The program letter should—
 - (1) Identify the aircraft (using photographs, for example),
 - (2) Identify the purpose of the certificate (that is, operating an amateur-built aircraft), and
- (3) Describe a flight test program that addresses the requirements, goals, and objectives during flight testing, including the area over which you intend to do your test flights (see paragraph 13).

11. FAA INSPECTION OF AN AMATEUR-BUILT AIRCRAFT.

a. General Information About What We Do and Do Not Do For Inspections.

- (1) We inspect your aircraft for general airworthiness when you submit it for airworthiness certification. We will not inspect it before you register it or during construction. However, we must inspect it before we issue your airworthiness certificate. Standard FAA policy is to issue one airworthiness certificate for the aircraft. In some cases we may issue a limited duration airworthiness certificate which would only be valid for test flying (Phase I) the aircraft. When we inspect it, it should be ready to fly, except for having the cowlings, fairings, and panels open for inspection.
- (2) The FAA inspector cannot be involved in the building process and will not perform any progressive or in-process inspections during the building process. You should ask a knowledgeable person (for example, an EAA Technical Counselor) to conduct in-process inspections. You should record any such inspections in the aircraft logbook.
- (3) We consider FAA designated airworthiness representatives (DARs) the primary resource for the certification of amateur-built aircraft. You may contact your local FAA office to locate an authorized DAR. DARs are authorized to charge a fee for their services, which they set. We do not govern this fee. To find out more information about amateur-built DARs, reference FAA Order 8130.30, Amateur-Built DAR.

b. Visual Inspection. The FAA inspector will conduct an onsite, visual, general airworthiness certification inspection of the aircraft, including reviewing the information in paragraphs 11c(1) and (2), before issuing a special airworthiness certificate with the appropriate operating limitations. With your special airworthiness certificate and operating limitations, you will be able to show compliance with 14 CFR part 91, General Operating and Flight Rules, § 91.319(b). The FAA will perform the visual inspection as shown in figure 2, FAA Visual Inspection of an Amateur-Built Aircraft.

Verify the aircraft registration. Verify your aircraft includes all required markings and placards in paragraph 9, including the passenger warning. Inspect your workmanship methods, techniques, and practices. Verify your aircraft is in a condition for safe operation. Ask you to disassemble components if we have a question of safety that would endanger the pilot or the general public. We usually will not require you to remove equipment or components, or to disassemble any part of the aircraft. Determine whether you built your aircraft from a kit. \downarrow No √ Yes Determine whether you fabricated the aircraft from the identified kit Complete the configuration, which meets the major inspection. portion criterion. Ψ Yes Ψ No Verify the aircraft Make an independent description and determination about configuration agree whether you fabricated with the information and assembled the major given in the FAA portion of the aircraft. listing of eligible (This may prolong the amateur-built aircraft. certification process.)

Figure 2 — FAA Visual Inspection of an Amateur-Built Aircraft

- c. Paperwork Review. We will review the following information as part of our inspection.
- (1) Evidence of inspections such as construction log entries signed by the amateur builder or other knowledgeable persons (for example, certified mechanics, or other builders) or EAA Technical Counselors visit report cards describing any inspections conducted during the inspection. Those entries should indicate what was inspected and by whom, and the date of the inspection. Include photographs documenting construction details.

(2) Logbooks covering the aircraft, engine, and propeller or rotor blade(s) so that the FAA inspector can review the service records, record the inspection, and issue the certification. We will use the builder's log entries to substantiate that your construction workmanship methods, techniques, and practices are acceptable, and to support your inspection and airworthiness statement on FAA Form 8130-6.

12. ISSUING AN AIRWORTHINESS CERTIFICATE FOR AN AMATEUR-BUILT AIRCRAFT.

a. Issuance of a Special Airworthiness Certificate and Operating Limitations.

- (1) In addition to 14 CFR requirements, the guidelines you use to operate and maintain your aircraft are included in your operating limitations, which become part of the special airworthiness certificate. We may impose additional limitations to those listed in FAA Order 8130.2, Airworthiness Certification of Aircraft and Related Products, if necessary for safety. References in this AC to "Phase I" refer to those operating limitations that apply to the aircraft while it's undergoing initial test flights. "Phase II" refers to those operating limitations that apply after you complete the initial test flights. Phase I and Phase II operating limitations are provided in Order 8130.2. The FAA inspector will issue the special airworthiness certificate, but its validity will be subject to compliance with its operating limitations. Those limitations will provide for operation in an assigned flight test area for a certain number of hours (Phase I) before the second part (Phase II) of the limitations becomes effective, which releases the aircraft from the test area.
- (2) After we inspect your aircraft and determine it is in a condition for safe operation, we will issue FAA Form 8130-7, Special Airworthiness Certificate, with the appropriate operating limitations in accordance with Order 8130.2. Typically, we issue one airworthiness certificate per aircraft.
- (3) You must display the airworthiness certificate and operating limitations while the aircraft is being operated. The pilot must conduct all flights under the operating limitations and part 91. Details concerning flight test areas are in paragraph 13.

Figure 3 — Getting Your Operating Limitations

FAA

Inspect the aircraft, if we choose to issue amateur-built Phase I operating limitations on a one-time basis for determining compliance with § 91.319(b) and continued operation under § 21.191(g).

FAA

Prescribe Phase I and Phase II operating limitations in accordance with 8130.2. Phase I operating limitations appropriate for the applicant to show the aircraft is controllable throughout its normal range of speeds and maneuvers and that the aircraft has no hazardous operating characteristics or design features.

Applicant

Fly the aircraft over water or sparsely populated areas with light air traffic in accordance with § 91.305, Flight test areas.

Applicant

Complete the flight test period.

Applicant

Endorse the aircraft logbook with a statement that you have complied with the requirements of § 91.319(b).

Applicant

Operate your aircraft in accordance with Phase II operating limitations.

- **b.** Issuance of a Limited Duration Airworthiness Certificate and Operating Limitations. Due to unique or special situations, an FAA inspector may issue a limited duration airworthiness certificate, which is valid only for test flying (Phase I). When you satisfactorily complete all flight test maneuvers and required test flight hours, you may apply to the local FAA office for amending the airworthiness certificate and operating limitations.
- (1) How to Apply. Submit another FAA Form 8130-6 and a letter requesting amendment of the airworthiness certificate and operating limitations.
- (2) Issuing the Amended Airworthiness Certificate and Operating Limitations. After you complete the Phase I flight test period and before we issue the amended airworthiness certificate and Phase II operating limitations, we will review the flight log to determine whether you have taken corrective action on any problems found during the flight testing and whether the aircraft's condition for safe operation has been established under § 91.319. We also may reinspect the aircraft.

c. Refusal to Issue an Airworthiness Certificate. We do not certify amateur-built aircraft designs or require that you modify the design before airworthiness certification. However, we may deny airworthiness certification if when we inspect your aircraft, we find it does not meet the requirements for the certification you request or is not in a condition for safe operation. If we deny your certification request, we will send you a letter stating why we've denied it. We will put a copy of the letter in your aircraft record in the FAA Aircraft Registry office. Reference § 21.193(c) and Order 8130.2 for more information.

13. TESTING YOUR AMATEUR-BUILT AIRCRAFT.

- **a. Test Flights.** Section 91.319(b) requires you to show your aircraft is controllable at all its normal speeds during all the maneuvers you might expect to execute. You must also show it has no hazardous operating characteristics or design features.
- **b. Number of Test Hours.** The number of hours depends on your aircraft's characteristics. See the following table for specific requirements. The FAA inspector may decide you need additional hours of testing beyond those shown in the table to comply with § 91.319(b).

Aircraft Characteristics	Required Testing
Type certificated engine/propeller combination	25 hours
Non-type certificated engine/propeller combination	40 hours
Gliders, balloons, dirigibles, and ultralight vehicles eligible for FAA certification	10 hours, including five takeoffs and landings

- **c. Location.** You may suggest a flight test area to the FAA inspector. If the inspector approves your suggestion, he or she will specify it in your operating limitations. Usually, the test area should be within a 25-statute-mile radius from your aircraft's base of operation. Under § 91.305, the flight test must be over open water or sparsely populated areas with light air traffic so it won't pose a hazard to persons or property on the ground. You can ask us to help you pick a suitable area to ensure adequate airspace for testing.
- **d. Procedures.** See AC 90-89 for recommended flight testing procedures. We *strongly* recommend builders get a copy of this AC and follow its guidance. Also, the EAA will help its members in developing flight testing programs.

e. Restrictions.

- (1) Carrying Passengers. You may not carry passengers while you are restricted to the flight test area or during any portion of your phase I test flight program. We suggest you use a tape or video recorder for recording readings and other similar tasks. If you need an additional crewmember for a particular test, specify that in your application program letter for the airworthiness certificate. We will list this need in your operating limitations.
 - (2) Flight Instruction. You may not receive flight instruction during your flight test.

(3) Operating Limitations. When we issue an unlimited duration special airworthiness certificate, the operating limitations may be prescribed under the guidelines in Order 8130.2. The purpose of the operating limitations is for you to show and maintain compliance with § 91.319. The operating limitations include a requirement for you to endorse the aircraft maintenance record (logbook) with a statement certifying the aircraft has been shown to comply with that section. The limitations may vary for some aircraft, and we may issue additional limitations in unusual conditions in the interest of safety. We will review the limitations with you to make sure you thoroughly understand each one.

14. CONTINUING TO OPERATE YOUR AMATEUR-BUILT AIRCRAFT.

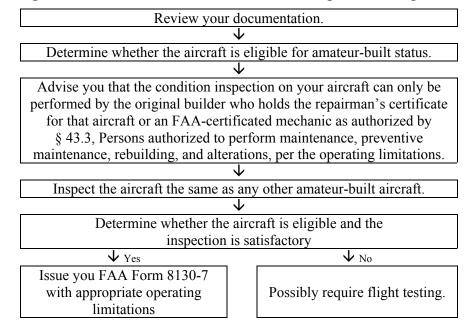
- **a.** After you complete all required test flights, hours, and maneuvers, the aircraft is considered safe for continued flight. To continue operating your aircraft, you must follow the operating limitations issued with the aircraft airworthiness certificate.
- **b.** You may not operate your aircraft without the airworthiness certificate and operating limitations aboard. If you lose the operating limitations or they are mutilated or no longer legible, contact your local FAA office for guidance or contact AFS-750 (see appendix 7 for the address) to obtain a copy of the operating limitations. If you can't get a copy, ask your local FAA office to issue a replacement FAA Form 8130-7 and operating limitations. If you can document that the aircraft has completed the flight test requirements (through logbook entries), we may issue new operating limitations without initial flight test operating limitations.
 - **c.** You should be aware of the responsibilities for maintenance and recordkeeping.

15. BUILDING AND CERTIFYING AN AMATEUR-BUILT AIRCRAFT BUILT OUTSIDE THE UNITED STATES AND PURCHASED BY A U.S. CITIZEN.

- a. U.S. Requirements for Getting an Airworthiness Certificate for an Amateur-Built Aircraft Built Outside the United States and Purchased by a U.S. Citizen. Contact your local FAA office to find out the exact steps to take to meet U.S. certification requirements. You will need to send the following:
 - (1) FAA Form 8130-6.
- (2) A record of a condition inspection performed on the aircraft by the previous owner within a reasonable period of time (about 30 days) before you apply for certification. (Use 14 CFR part 43, Maintenance, Preventive Maintenance, Rebuilding, and Alteration, appendix D, Scope and Detail of Items (as Applicable to the Particular Aircraft) to be included in Annual and 100 Hour Inspections, as a guide for the inspection.) Record the inspection in the aircraft records.
- (3) Documentation obtained by the previous owner from the civil aviation authority of the country or jurisdiction of origin verifying the aircraft was originally certificated as an amateur-built experimental aircraft and that it meets the requirements of § 21.191(g).
 - (4) Proper documentation of registration under part 47.
 - (5) A letter of request for certification (see appendix 13).

b. FAA Inspection of an Amateur-Built Aircraft Built Outside the United States and Purchased by a U.S. Citizen. During our inspection of the aircraft, we will be following the procedures in figure 4, Procedures the FAA Uses to Complete the Inspection.

Figure 4 — Procedures the FAA Uses to Complete the Inspection



- c. Foreign Requirements and Procedures for an Amateur-Built Aircraft Built Outside the United States and Purchased by a U.S. Citizen. Many other civil aviation authorities recognize FAA regulatory requirements and certification procedures and in some cases have incorporated them into their certification process. However, some countries' or jurisdictions' requirements for certification may not meet FAA requirements. If you get an aircraft from one of those countries or jurisdictions, you may not be allowed to operate it in the United States under § 21.191(g).
- d. Requirements and Procedures for a U.S. Citizen Building an Amateur-Built Aircraft Outside the United States. You should comply with the civil aviation authority rules in the country or jurisdiction where you wish to operate the aircraft. If you want to bring your aircraft into the United States, you will have to apply for a U.S. airworthiness certificate as described previously in this paragraph.
- **16. BECOMING A REPAIRMAN OF YOUR AMATEUR-BUILT AIRCRAFT.** You can get a repairman certificate under certain circumstances. However, the only privilege this certificate gives you is to do the annual condition inspection. The certificate will be valid only for a specific person and a specific aircraft. The privileges and limitations in 14 CFR part 65, Certification: Airmen Other Than Flight Crewmembers, § 65.103, Repairman certificate: Privileges and limitations, do not apply to becoming this type of repairman (experimental aircraft builder). To get a certificate, apply to your local FAA office. See appendix 14 and AC 65-23, Certification of Repairmen (Experimental Aircraft Builders), for application information. You can get a certificate if you are—
- **a.** The primary builder of your aircraft and can satisfactorily prove to us that you can determine whether the aircraft is in a condition for safe operation.

b. One of the builders of an amateur-built aircraft registered in a corporation's name. The applicant should prove through use of the builder's log that he or she can determine whether the aircraft is in a condition for safe operation

17. SAFETY RECOMMENDATIONS.

a. Pilot Responsibilities. As a pilot, you should—

- (1) Be thoroughly familiar with the aircraft, its engine and propeller operation, and ground handling characteristics, including operation of the brakes. You should test these operations by conducting taxi tests before attempting flight operations. You may not take off during taxi tests without an airworthiness certificate.
- (2) Take precautions to ensure emergency equipment and personnel are readily available in the event of an accident, before the first flight of an amateur-built aircraft.
- (3) Refrain from aerobatic maneuvers until you have enough flight experience to establish that the aircraft is satisfactorily controllable throughout its normal range of speeds and maneuvers. You should document in the aircraft logbook, test flight program log, or equivalent all satisfactorily conducted maneuvers.

b. Operating Limitations.

- (1) The operating limitations require that you operate the aircraft under the applicable air traffic control and general operating rules of part 91. If you plan to operate under instrument flight rules (IFR), pay particular attention to the applicable requirements in part 91.
- (2) The operating limitations will authorize all operations to be conducted (visual flight rules, day/night, and IFR). These operating limitations may state that the instruments and equipment mandated by § 91.205(b), (c), and/or (d), Powered civil aircraft with standard category U.S. airworthiness certificates: Instrument and equipment requirements, must be installed and operable. In addition, these operating limitations may state flight test areas as defined in § 91.305.

c. Equipment.

- (1) Unless you've received deviation authority from air traffic control, if your aircraft has a Mode C transponder, the aircraft also must have a calibrated airspeed/static pressure system to prevent an error in altitude reporting. You should have the transponder tested and inspected under § 91.413, ATC transponder tests and inspections.
- (2) Once your aircraft has been released from the flight test area, you must have an emergency locator transmitter aboard in accordance with \S 91.207, Emergency locator transmitters. An aircraft with only one seat is exempt from this requirement according to \S 91.207(f)(9).

d. Rotorcraft.

(1) If you intend to fly an aircraft with a fully articulated rotor system, be particularly cautious of ground resonance. If you maintain or allow this condition of rotor imbalance to progress, it can be extremely dangerous and may result in structural failure.

(2) As a rotorcraft pilot, you should complete tests showing that stability, vibration, and balance are satisfactory with the rotorcraft tied down before beginning hover, horizontal, or vertical flight operations.

18. GETTING THE PUBLICATIONS REFERRED TO IN THIS AC.

a. The CFR and those ACs for which a fee is charged may be obtained from the Superintendent of Documents at the following address. A listing of the CFR and current prices is located in AC 00-44, Status of Federal Aviation Regulations, and a listing of all ACs is located in AC 00-2, Advisory Circular Checklist.

Superintendent of Documents P.O. Box 371954 Pittsburgh, PA 15250-7954

b. To be placed on our mailing list for free ACs, contact—

U.S. Department of Transportation Subsequent Distribution Office SVC-121.23 Ardmore East Business Center 3341Q 75th Avenue Landover, MD 20785

- **c.** Our Web site is located at www.faa.gov.
- **19. SUBMITTING COMMENTS ABOUT THIS AC.** Direct comments regarding this AC to the Production and Airworthiness Division, AIR-200, 800 Independence Avenue SW., Washington, DC 20591.

Frank P. Paskiewicz Manager, Production and Airworthiness Division, AIR-200

APPENDIX 1. DEFINITIONS RELEVANT TO THIS AC

Amateur-Built Aircraft. Section 21.191(g) defines an amateur-built aircraft as an aircraft in which the major portion has been fabricated and assembled by a person(s) who undertook the construction process solely for his or her own education or recreation.

Commercial Help. Help with fabricating or assembling amateur-built aircraft for compensation. This does not include one person helping another without compensation.

Designated Airworthiness Representative (DAR). Within the context of this AC, a private person designated by the FAA to act on its behalf to inspect amateur-built aircraft and issue airworthiness certificates.

Experimental Aircraft Association (EAA) Technical Counselor. As defined by the EAA, EAA Technical Counselors provide overall mechanical help and pre-cover guidance to owners and builders.

FAA Inspector. Within the context of this AC, an aviation safety inspector or an authorized DAR.

FAA Office. Within the context of this AC, an FAA office with airworthiness certification authority. These offices include flight standards district offices, manufacturing inspection district offices, certificate management units, and manufacturing inspection satellite offices that may delegate the airworthiness inspection and certification of an amateur-built aircraft to a DAR.

Fabricate. To construct a structure or component from raw stock or materials.

Fireproof. Section 1.1 defines fireproof as the capacity of a material or part to withstand the heat associated with fire at least as well as steel in dimensions appropriate for the purpose for which it is used.

Kit-Built Aircraft. An aircraft constructed from a manufactured kit that may include some major subassemblies and/or preassembled components. This description does not include primary category aircraft as defined in § 21.184.

Major Portion. When the aircraft is completed, the majority of the fabrication and assembly tasks have been performed by the amateur builder. When you purchase a partially completed kit or aircraft, the major portion includes the construction efforts of the previous amateur builders.

Person. Section 1.1 defines person as an individual, firm, partnership, corporation, company, association, joint-stock association, or governmental entity, including a trustee, receiver, assignee, or similar representative of any of them.

APPENDIX 2. 14 CFR PARTS RELATED TO THIS AC

- **14 CFR Part 1, Definitions and Abbreviations.** Part 1 defines the words and terms used in subchapters A through K of chapter 1 of 14 CFR.
- **14 CFR Part 21, Certification Procedures for Products and Parts.** Part 21 sets forth rules for the issuance of and change to type certificates, and issuance of production certificates, airworthiness certificates, and export airworthiness approvals. It also sets forth the rules governing the holders of these certificates and the approval of certain materials, parts, processes, and appliances.
- **14 CFR Part 43, Maintenance, Preventive Maintenance, Rebuilding, and Alteration.** Part 43 sets forth rules governing the maintenance, preventive maintenance, rebuilding, and alteration of aircraft having a U.S. airworthiness certificate, certain foreign-registered aircraft, and airframes, aircraft engines, propellers, appliances, and component parts of these aircraft.
- **14 CFR Part 45, Identification and Registration Marking.** Part 45 sets forth rules for display of nationality and registration marks; display of special airworthiness classification marks; identification plates for aircraft, aircraft engines, and propellers; and identification of certain replacement and critical aircraft parts and components.
- 14 CFR Part 47, Aircraft Registration. Part 47 sets forth rules for registering aircraft.
- **14 CFR Part 65, Certification: Airmen Other Than Flight Crewmembers.** Part 65 sets forth rules for the issuance of certain certificates and associated ratings for airmen other than flight crewmembers and the general operating rules for the holders of those certificates.
- **14 CFR Part 91, General Operating and Flight Rules.** Part 91 sets forth rules governing the operation of most aircraft within the United States.
- **14 CFR Part 103, Ultralight Vehicles.** Part 103 sets forth rules governing the operation of ultralight vehicles within the United States.

APPENDIX 3. PUBLICATIONS RELATED TO THIS AC

- AC 20-139, Commercial Assistance During Construction of Amateur-Built Aircraft. AC 20-139 explains the regulations and FAA policy for fabricating and assembling amateur-built aircraft.
- AC 21-12, Application for U.S. Airworthiness Certificate, FAA Form 8130-6. AC 21-12 provides instructions for preparing and submitting FAA Form 8130-6.
- AC 43.13-1, Acceptable Methods, Techniques, and Practices Aircraft Inspection and Repair. AC 43.13-1 describes the methods, techniques, and practices acceptable to the Administrator for the inspection and repair of nonpressurized areas of civil aircraft when there are no manufacturer repair or maintenance instructions.
- AC 43.13-2, Acceptable Methods, Techniques, and Practices Aircraft Alterations. AC 43.13-2 describes the methods, techniques, and practices acceptable to the Administrator for altering civil aircraft.
- **AC 45-2, Identification and Registration Marking.** AC 45-2 describes one way, but not the only way, to comply with part 45.
- AC 65-23, Certification of Repairmen (Experimental Aircraft Builders). AC 65-23 provides guidance to builders of experimental aircraft concerning certification as a repairman.
- **AC 90-89, Amateur-Built Aircraft and Ultralight Flight Testing Handbook.** AC 90-89 sets forth suggestions and safety-related recommendations to help amateur and ultralight builders in developing individualized aircraft flight test plans.
- **FAA Order 8130.2, Airworthiness Certification of Aircraft and Related Products.** Order 8130.2 establishes procedures for accomplishing original and recurrent airworthiness certification of aircraft and related products.
- **FAA Order 8130.30, Amateur-Built DAR.** Order 8130.30 provides policy and guidance concerning new DAR qualification criteria for appointments limited to amateur-built airworthiness certification activities.

APPENDIX 4. LIST OF SAMPLE FORMS AND LETTERS IN THIS AC

Sample AC Form 8050-1, Aircraft Registration Application (see appendix 5).

Sample Federal Aviation Administration (FAA) Form 8130-6, Application for Airworthiness Certification (Amateur-Built) (see appendix 6).

Sample FAA Form 8000-38, Fabrication/Assembly Operation Checklist (see appendix 8).

Sample Aeronautical Center (AC) Form 8050-88, Affidavit of Ownership for Amateur-Built Aircraft (see appendix 9.

Sample AC Form 8050-2, Kit Bill of Sale (see appendix 10).

Sample letter for requesting an aircraft registration number under 14 CFR § 47.15 (see appendix 11).

Sample FAA Form 8130-12, Eligibility Statement, Amateur-Built Aircraft (see appendix 12).

Sample program letter to accompany application for airworthiness certificate (see appendix 13).

Sample FAA Form 8610-2, Airman Certificate and/or Rating Application (see appendix 14).

APPENDIX 5. SAMPLE AERONAUTICAL CENTER FORM 8050-1, AIRCRAFT REGISTRATION APPLICATION

FORM APPROVED OMB No. 2120-0042

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AC Form 8050-1 (12/90) (0052-00-628-9007) Supersedes Previous Edition

APPENDIX 6. SAMPLE FAA FORM 8130-6, APPLICATION FOR AIRWORTHINESS CERTIFICATE (AMATEUR-BUILT) (FACE SIDE)

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APPENDIX 6. SAMPLE FAA FORM 8130-6, APPLICATION FOR AIRWORTHINESS CERTIFICATE (AMATEUR-BUILT) (REVERSE SIDE)

	A. M	ANUFACTURER						
	NAM			ADDF	RESS			
zυ								
VI. PRODUCTION FLIGHT TESTING	B. P	RODUCTION BASIS (Check app	licable item)					
5 5		PRODUCTION CERTIFICA	TE (Give production certificate number	r)				
ΔĒ		TYPE CERTIFICATE ONLY	(
Σ.Ε.		APPROVED PRODUCTION	N INSPECTION SYSTEM					
	C. G	IVE QUANTITY OF CERTIFICAT	ES REQUIRED FOR OPERATING NE	EDS —	→			
		E OF APPLICATION	NAME AND TITLE (Print or type			SIGNATURE		
	4 5	ECODIDITION OF AIDODAFT						
		ESCRIPTION OF AIRCRAFT SISTERED OWNER		ADDF	DECC			
	INLO	ISTERED OWNER		ADDI	NL33			
	BUIL	DER (Make)		MOD	EL			
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_	R D	ESCRIPTION OF FLIGHT	CUSTON	MER DEMONST	RATION FLIGHTS [] (Check if ap	nnlicable)	
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ŏ	D. T	HE AIRCRAFT DOES NOT MEE	T THE APPLICABLE AIRWORTHINES	S REQUIREME	ENTS AS FOLLOWS:			
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VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT								
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			e 49 of the United States Code 44101 e	<u>et seq</u> . and appl	icable Federal Aviation F	Regulations; and t	hat the aircraft has b	een inspected and is
	DAT	orthy for the flight described.	E AND TITLE (Print or type)			SIGNATURE		
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2			rkings in Compliance with 14 CFR sect	ion 91.9,	G. Statement of Co	nformity, FAA For	m 8130-9 (Attach wl	nen required)
SS: N		as Applicable			H. Foreign Airworth	iness Certification	for Import Aircraft	
필은왕		B. Current Operating Limitations	Attached		(Attach when red		. ro. import / in ordit	
Į ₹Įij		C. Data, Drawings, Photographs			L. Previous Airworth	niness Certificate	Issued in Accordance	e with
유민		o. Data, Drawings, Photographs	, etc. (Attach when required)		2			
SIG		D. Current Weight and Balance	nformation Available in Aircraft		14 CFR Section	CA	R	_(Original Attached)
VIII. AIRWORTHINESS DOCUMENTATION (FAA/DESIGNEE use only)		E. Major Repair and Alteration, F	FAA Form 337 (Attach when required)		J. Current Airworthi	ness Certificate Is	ssued in Accordance	with
(FA		F. This inspection Recorded in A			14 CFR Section			(Copy attached)
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APPENDIX 7. USEFUL ADDRESSES

Federal Aviation Administration Aircraft Registration Branch, AFS-750

Mailing Address P.O. Box 25504 Oklahoma City, OK 73125-0504

Physical Address 6425 South Denning Oklahoma City, OK 73169

Telephone: (405) 954-3116

Fax: (405) 954-3548

Experimental Aircraft Association, Inc.

Mailing Address P.O. Box 3086 Oshkosh, WI 54903-3086

Physical Address 3000 Poberezny Road Oshkosh, WI 54902

Telephone: (920) 426-4821 Fax: (920) 426-6560

EAA aviation information services: (888) 322-4636

E-mail: infoserv@eaa.org Public Web site: www.eaa.org

Members Only Web site: http://members.eaa.org/homebuilders/index.html

APPENDIX 8. SAMPLE FAA FORM 8000-38, FABRICATION/ASSEMBLY OPERATION CHECKLIST

FABRICATION/ASSEMBLY OPERATION CHEC	CKLIST	
Company Name		
Address		
Aircraft Model Document Name and Dat	e	
Type of Aircraft		 -
Type or morality		 -
	Accomplis	hed Bv
	Kit Manufacturer	Amateur
FUSELAGE		7
Fabricate Special Tools or Fixtures		
Fabricate Congitudinal Members, Cores or Shells		
Fabricate Bulkheads or Cross Members		
Assemble Fuselage Basic Structure		
Fabricate Brackets and Fittings		
6. Install Brackets and Fittings		
7. Fabricate Cables, Wire, and Lines		
8. Install Cables, Wires, and Lines		
Fabricate Fuselage Covering or Skin		
Install Fuselage Covering or Skin		
11. Fabricate Windshield/Windows/Canopy		
12. Install Windshield/Windows/Canopy		
12. Install vvilusilielu/vviluows/Carlopy		
WINGS		
	1	
Fabricate Special Tools or Fixtures Fabricate Wing Space		
2. Fabricate Wing Spars		
3. Fabricate Wing Ribs or Cores		
Fabricate Wing Leading and Trailing Edge		
5. Fabricate Drag/Anti-Drag Truss Members		
6. Fabricate Wing Brackets and Fittings		
7. Fabricate Wing Tips		
8. Assemble Basic Wing Structures		
Install Wing Leading/Trailing Edge and Tips		
10. Install Drag/Anti-Drag Truss		
11. Fabricate Cables, Wires and Lines		
12. Install Cables, Wires, and Lines		
13. Fabricate Wing Covering or Skin		
14. Install Wing Covering or Skin		
15. Fabricate Wing Struts/Wires		
16. Install and Rig Wings and Struts		

APPENDIX 8. SAMPLE FAA FORM 8000-38, FABRICATION/ASSEMBLY OPERATION CHECKLIST (CONTINUED)

FABRICATION/ASSEMBLY OPERATION CHEC	· · · · · · · · · · · · · · · · · · ·	
	Accomplis	
	Kit Manufacturer	Amateur
FLIGHT CONTROLS		
Fabricate Special Tools or Fixtures		
Fabricate Aileron Spars		
Fabricate Aileron Ribs or Cores		
Assemble Aileron Structure		
Fabricate Aileron Leading and Trailing Edge		
6. Assemble Aileron Leading and Trailing Edge		
7. Fabricate Aileron Brackets and Fittings		
Install Aileron Brackets and Fittings		
9. Fabricate Aileron Covering or Skin		
10. Install Aileron Covering or Skin		
11. Fabricate Aileron Trim Tab		
12. Install Aileron Trim Tab		
13. Install and Rig Aileron		
14. Fabricate Flap Spars		
15. Fabricate Flap Ribs or Cores		
16. Assemble Flap Structure		
17. Fabricate Flap Leading and Trailing Edge		
18. Assemble Flap Leading and Trailing Edge		
19. Fabricate Flap Brackets and Fittings		
20. Install Flap Brackets and Fittings		
21. Fabricate Flap Covering or Skin		
22. Install Flap Covering or Skin		
23. Install and Rig Flap		
24. Fabricate Elevator Spars		
25. Fabricate Elevator Ribs or Cores		
26. Assemble Elevator Structure		
27. Fabricate Elevator Leading and Trailing Edge		
28. Assemble Elevator Leading and Trailing Edge		
29. Fabricate Elevator Brackets and Fittings		
30. Install Elevator Brackets and Fittings		
31. Fabricate Elevator Covering or Skin		
32. Install Elevator Covering or Skin		
•		
33. Fabricate Elevator Trim Tab 34. Install Elevator Trim Tab		
35. Install and Rig Elevator		
36. Fabricate Rudder Spar		
37. Fabricate Rudder Ribs or Cores		
38. Assemble Rudder Structure		
39. Fabricate Rudder Leading and Trailing Edge		
40. Assemble Rudder Leading and Trailing Edge		
11. Fabricate Rudder Brackets and Fittings		
42. Install Rudder Brackets and Fittings		
43. Fabricate Rudder Covering or Skin		
14. Install Rudder Covering or Skin		
45. Fabricate Rudder Trim Tab		
46. Install Rudder Trim Tab		
47. Install and Rig Rudder		

APPENDIX 8. SAMPLE FAA FORM 8000-38, FABRICATION/ASSEMBLY OPERATION CHECKLIST (CONTINUED)

	Accomplis	hed By
	Kit Manufacturer	Amateur
EMPENNAGE		
Fabricate Special Tools of Fixtures		
2. Fabricate Spars		
3. Fabricate Ribs or Cores		
Fabricate Leading and Trailing Edges		
5. Fabricate Tips		
6. Fabricate Brackets and Fittings		
7. Assemble Empennage Structures		
Install Leading/Trailing Edges and Tips		
9. Install Fittings		
Fabricate Cables, Wires, and Lines		
Install Cables, Wires and Lines		
Fabricate Empennage Covering or Skin		
Install Empennage Covering or Skin		
CANARD	•	
Fabricate Canard		
2. Assemble Canard Structure		
3. Install and Rig Canard		
<u> </u>		
LANDING GEAR	<u> </u>	
Fabricate Special Tools or Fixtures		
Fabricate Struts		
Fabricate Brakes System		
Fabricate Branco System Fabricate Retraction System		
Fabricate Cables, Wires and Lines		
Assemble Wheels, Brakes, Tires, Landing Gear		
Install Landing Gear System Components		
7. Hotali Zarianig Odar Oyotom Componento		
PROPULSION	<u> </u>	
Fabricate Special Tools of Fixtures		
Fabricate Engine Mount	+	
3. Fabricate Engine Mount 3. Fabricate Engine Cooling System/Baffles		
4. Fabricate Induction System		
Fabricate Induction System Fabricate Exhaust System		
6. Fabricate Engine Controls	+	
7. Fabricate Engine Controls 7. Fabricate Brackets and Fittings		
8. Fabricate Cables, Wires and Lines		
9. Assemble Engine		
Assemble Engine Install Engine and Items Listed Above		
Fabricate Engine Cowling	+	
	+	
Install Engine Cowling Fabricate Propeller		
4. Install Propeller		
5. Fabricate Fuel Tank		

APPENDIX 8. SAMPLE FAA FORM 8000-38, FABRICATION/ASSEMBLY OPERATION CHECKLIST (CONTINUED)

	Accomplis	hed By
	Kit Manufacturer	Amateur
PROPULSION (Continued	d)	
16. Install Fuel Tank		
17. Fabricate Fuel System Components		
18. Install Fuel System Components		
MAIN ROTOR DRIVE SYSTEMS AND CONT	ROL MECHANISM(S)	
Fabricate Special Static and Dynamic Main Rotor Rigging Tools		
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		
Pabricate Main Rotor Non-Rotating Controls Patrola Rotor Rotation and Non-Rotation Controls		
Rig Main Rotor Rotating and Non-Rotating Controls Babricate Main Rotor Blades		
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		
14. Dynamically Track and Balance Main Rotor System		
TAIL ROTOR DRIVE SYSTEMS AND CONTR	ROL MECHANISM(S)	
Fabricate Special Static Tail Rotor Rigging Tools		
Fabricate Vertical Trim Fin		
3. Install Vertical Trim Fin		
Fabricate Horizontal Stabilizer		
5. Install Horizontal Stabilizer		
6. Fabricate Tail Rotor Drive System		
7. Install Tail Rotor Drive System		
8. Fabricate Tail Cone or Frame		
9. Install and Rig Tail Cone or Frame		
10. Rig Vertical Trim Fin		
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		
FAA F 0000 00 (40 04)		

APPENDIX 8. SAMPLE FAA FORM 8000-38, FABRICATION/ASSEMBLY OPERATION CHECKLIST (CONTINUED)

FABRICATION/ASSEMB	LY OPERATION CHECKLIST	(Continued)	
		Accompl	ished By
		Kit Manufacturer	Amateur
Co	OCKPIT/INTERIOR		
Fabricate Instrument Panel			
Install Instrument Panel and Instruments			
3. Fabricate Seats			
4. Install Seats			
5. Fabricate Electrical Wiring, Controls/Switches			
Install Electrical System Controls/Switches			
	TOTAL		
Comments			
Printed Name	Signature		Date

APPENDIX 9. SAMPLE AERONAUTICAL CENTER FORM 8050-88, AFFIDAVIT OF OWNERSHIP FOR AMATEUR-BUILT AIRCRAFT

AFFIDAVIT OF OWNERSHIP FOR AMATEUR-BUILT AIRCRAFT

Builder's Name Early A. Builder Model VAN'S RV-6 Serial Number 1001 Class (airplane, rotorcraft, glider, etc.) Airplane Type of Engine Installed (reciprocating, turbopropeller, etc.) reciprocating Number of Engines Installed 1 Manufacturer, Model and Serial Number of each Engine Installed LY-CON, O-320 EXP.,	_
Class (airplane, rotorcraft, glider, etc.) Type of Engine Installed (reciprocating, turbopropeller, etc.) Number of Engines Installed 1	
Type of Engine Installed (reciprocating, turbopropeller, etc.) reciprocating Number of Engines Installed 1	
Number of Engines Installed 1	_
Manufacturer, Model and Serial Number of each Engine Installed LY-CON, O-320 EXP.,	
L023-48X	
Built for Land or Water Operation Land	
Number of Seats 2	
More than 50% of the above-described aircraft was built from miscellaneous parts and I am the owner. More than 50% of the above-described aircraft was built from a kit (prefabricated parts) and I am the owner. The bill of sale from the kit manufacturer is attached.	
Early A. Builder (Signature of Owner)	
Address 1240 Bois d'Arc Road City Savoy	
State <u>TX</u> Zip Code <u>75479</u> Telephone <u>903 555-1212</u>	
State of	
County of	
Subscribed and sworn to before me this day of	
My commission expires	
(Signature of Notary Public)	

AC Form 8050-88 (9/98) (0052-00-559-0002) Supersedes previous edition

APPENDIX 10. SAMPLE AERONAUTICAL CENTER FORM 8050-2, KIT BILL OF SALE

U.S. DE	UNITED STATES OF A		FORM APP OMB NO. 2°									
	KIT ABGRAET BILL O	F SALE										
U A	OR AND IN CONSIDERATION NDERSIGNED OWNER(S) ND BENEFICIAL TITLE OF RIBED AS FOLLOWS:	OF THE FULL LEGAL										
	ITED STATES N 130EA											
	RAFT MANUFACTURER & MOI	DEL VAN'S RV-6										
AIRCF	RAFT SERIAL No.											
Г	DOES THIS DAY HEREBY SELL, GRANT, TH DELIVER ALL RIGHTS, TH IN AND TO SUCH AIRCRA	RANSFER AND TLE, AND INTERESTS	Do Not Write In This Block FOR FAA USE ONLY									
	NAME AND ADDRESS (IF INDIVIDUAL(S), GIVE LAST NAME, FIRST	NAME, AND MIDDLE INITIAL.)	TONTAA OSE ONEI									
ER	BUILDER, I	Early A.										
AS	1240 Bois d' Arc Road											
CH	Savoy, TX 75479											
PURCHASER												
	DEALER CERTIFICATE NUMBER											
AND TO SINGULA	ARLY THE SAID AIRCRAFT FOREVER, A		DRS, AND ASSIGNS TO HAVE AND TO) HOLD								
IN TEST	IMONY WHEREOF HAVE S	ET HAND AND SEAL	'HIS DAY OF	20								
	NAME (S) OF SELLER (TYPED OR PRINTED)	SIGNATURE (S) (IN INK) (IF EXECUTED FOR CO-OWNERSHIP, ALL MUST SIGN.)	TITLE (TYPED OR PRINTED)									
LER	VAN'S											
SEL												
•												
	- 1											
ACKNO	WLEDGMENT (NOT REQUIRED	OR PURPOSES OF FAA REC	DRDING: HOWEVER, MAY BE REC	UIRED								
BY LOC	AL LAW FOR VALIDITY OF THE INSTE	tUMENT.)										

AC Form 8050-2 (9/92) (NSN 0052-00-629-0003) Supersedes Previous Edition

ORIGINAL: TO FAA

APPENDIX 11. SAMPLE LETTER FOR REQUESTING AN AIRCRAFT REGISTRATION NUMBER UNDER 14 CFR § 47.15

[Insert Date]

Federal Aviation Administration Aircraft Registration Branch, AFS-750 P.O. Box 25504 Oklahoma City, OK 73125-0504

Sir/Madam:

This is a request for a U.S. identification number assignment for my amateur-built aircraft.

Aircraft Description:

Make/Builder: Early A. Builder

Type (airplane, rotorcraft, glider, or balloon): Airplane

Model: VAN'S RV-6 Serial Number: 1001

This aircraft has not previously been registered anywhere (reference 14 CFR § 47.15(a)(1)).

Normal Request (\$5); fee attached (check or money order)

X Special Registration Number Request (\$10); fee attached (check or money order)

Choices

 1^{st} 130EA 2^{nd} 130JR 3^{rd} 130FE 4^{th} 130JJ 5^{th} 130TX

Sincerely,

Early A. Builder

Early A. Builder

Owner

APPENDIX 12. SAMPLE FAA FORM 8130-12, ELIGIBILITY STATEMENT, AMATEUR-BUILT AIRCRAFT

Form Approved
MB NO 2120-0018

US Department of Transportation Federal Aviation Administration ELIGIBILITY STATEMENT AMATEUR-BUILT AIRCRAF	Applicant completes Section I thru III									
I. REGISTERED OWN	ER INFORMATION									
Name(s) Early A. Builder	Marie Commence of the Commence	1934								
Address(es)1240 Bois d'Arc Road		TX 75479								
No. & Street		State Zip								
Telephone No.(s) <u>(903) 555-1212</u> <u>Residence</u>	(214) 555-1212 Business									
U ADDRAGE IN										
II. AIRCRAFT INI										
Model VAN'S RV-6	Engine(s) MakeLY-CON 0-320 EXP									
Assigned Serial No	Engine(s) Serial NoL 023-48X									
Registration No. N130EA	Prop./Rotor(s) Make Sensenich									
Aircraft Fabricated: Plan ☐ Kit ☒	Prop./Rotor(s) Serial No.(s)195001									
III. MAJOR PORTION ELIGIBILITY	/ STATEMENT OF APPLICANT									
I certify the aircraft identified in Section by	lease Print) ave records to support this statement CE- any department or agency of the Unit overs up by any trick, scheme, or or fraudulent statements or represent owing the same to contain any false, not more than \$10,000 or imprisoned ECLARATION as provided by me in this statement and I agree that they are to be considered.	t and will ted States device a ations, or fictitious not more form are dered part stand the								
Signature of Applicant (<i>In Ink</i>) Early A. Builder		Date XX/XX/XX								
IV. NOTARIZATION	N STATEMENT									

FAA Form 8130-12 (4-03) Supersedes Previous Edition

NSN: 0052-00-889-9002

APPENDIX 13. SAMPLE PROGRAM LETTER TO ACCOMPANY APPLICATION FOR AIRWORTHINESS CERTIFICATE

TO:	[Insert loc	al FAA office or DAR] Date: 01/30/2001
		h 14 CFR § 21.193, I request a Special Airworthiness Certificate for my aircraft for the ng amateur-built aircraft. The aircraft description is as follows:
	Builder: Model: No. of Engi Design Cri	
The a	ircraft is con	nplete and the following items have been accomplished.
Yes	No	I enclose FAA Form 8130-6 with Sections I, II, and III complete.
Yes	No	I enclose FAA Form 8130-12 with Sections I, II, and III complete and notarized in Section IV.
Yes	No	I possess Aeronautical Center Form 8050-3.
Yes	No	I enclose a three-view drawing or photographs of the aircraft.
Yes	No	I have weighed the aircraft to determine that the most forward and aft center of gravity positions are within established limits. The weight and balance report is available at the aircraft, and a copy is submitted with this application.
Yes	No	I have maintained a construction log for the project, including photographs showing methods of construction and workmanship during the construction. Log entries describe all inspections conducted during construction.
Yes	No	The marking requirements of Part 45 have been complied with, including permanent attachment of a fireproof identification (data) plate, permanent application of appropriate registration marks, and the word "EXPERIMENTAL" displayed near each entrance t o the cabin or cockpit.
Yes	No	The following placard is displayed in the cockpit in full view of all occupants (not required for single-place aircraft).
		"PASSENGER WARNING - THIS AIRCRAFT IS AMATEUR-BUILT AND DOES NOT COMPLY WITH FEDERAL SAFETY REGULATIONS FOR STANDARD AIRCRAFT."

APPENDIX 13. SAMPLE PROGRAM LETTER TO ACCOMPANY APPLICATION FOR AIRWORTHINESS CERTIFICATE (CONTINUED)

The aircraft will be available for inspection at this location, and directions are as follows:

Grayson County Airport
Hangar No. 3
4701 Airport Drive
Sherman, TX 75020

I request airworthiness certification and operation limitations be issued permitting me to operate the aircraft within the following geographical area for flight testing. Initial flights will determine engine reliability and flight control characteristics. A flight test plan has been developed using the guidance in AC 90-89 and is available for review. After Phase I flight test completion, I plan to operate the aircraft under VFR conditions only.

25-statute mile radius of Grayson County Airport

Lat. 33-43 N; Long. 096-40W

Dallas-Ft. Worth Sectional (L13)

My residential telephone number is (903) 555-1212. My daytime business number is (214) 555-1212.

Early A. Builder
Owner/Builder

APPENDIX 14. SAMPLE FAA FORM 8610-2, AIRMAN CERTIFICATE AND/OR RATING APPLICATION

						TYPE OR PRINT ALL ENTRIES IN INK											m A	n Approved OMB No. 2120-002							
	nt of Transportatio																			T					
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							Specii	y Hailing)			٠,			BAG	СК		Ц	LAP							
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Ē	Bug Tussle, TX											TX 75479													
Ž.	Bug Tussle, TX L. HAVE YOU EVER HAD AN AIRMAN CERTIFICATE SUSPENDED OR REVOKED?												STATE ZIP CODE												
. APPLICANT INFORMATION	Ď NO													C	M. DO YOU NOW OR HAVE YOU EVER HELD AN FAA AIRMAN CERTIFICATE? Private Pilot SPECIFY TYPE:										
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