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Standard Specification for Required Product Information to be Provided with an Airplane¹

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1. Scope

1.1 The following requirements apply to the documentation of Light Sport Airplanes. This specification covers the Pilot's Operating Handbook (POH), Flight Training Supplement (FTS), Maintenance Manual, Aircraft Kit Assembly Instructions (KAI), Component Original Equipment Manufacturer (OEM) manuals, Aircraft OEM's Statement of Compliance, Registration, and Airframe Records information required for aircraft designed and manufactured in accordance with the ASTM Standards.

1.1.1 This specification covers the minimum requirements for information that shall be provided by the airplane OEM or seller of a new light sport airplane, light sport airplane kit, engines, propellers, or accessories (that is, radio, transponder, instruments, GPS, etc.) as a part of the initial sale or transfer to the first end-user.

1.1.2 This specification does not apply to the sale or transfer of used light sport airplane, engines, propellers, or accessories.

1.2 This specification applies to airplanes seeking civil aviation authority approval, in the form of airworthiness certificates or other like documentation.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This specification is under the jurisdiction of ASTM Committee F37 on Light Sport Aircraft and is the direct responsibility of Subcommittee F37.20 on Airplane. Current edition approved Jan. 1, 2023. Published January 2023. Originally approved in 2011. Last previous edition approved in 2015 as F2745 – 15. DOI: 10.1520/F2745-15R23.

2. Referenced Documents

- 2.1 *ASTM Standards*:²
- F2245 Specification for Design and Performance of a Light Sport Airplane
 - F2483 Practice for Maintenance and the Development of Maintenance Manuals for Light Sport Aircraft
 - F2563 Practice for Kit Assembly Instructions of Aircraft Intended Primarily for Recreation

3. Terminology

- 3.1 *Definitions*:
- 3.1.1 *records*—records of maintenance, alterations, and inspections for each aircraft subsequent to issuance of the manufacturer's statement of compliance.
- 3.2 *Acronyms*:
- 3.2.1 *FTS*—flight training supplement
 - 3.2.2 *KAI*—kit assembly instructions
 - 3.2.3 *LSA*—light sport aircraft (airplane)
 - 3.2.4 *OEM*—original equipment manufacturer
 - 3.2.5 *POH*—pilot's operating handbook

4. Significance and Use

- 4.1 The purpose of this specification is to provide the minimum information necessary for the proper identification, operation, and maintenance of each light sport airplane.
- 4.2 This specification does not define the method for documentation delivery to the first end-user. Whether to provide paper, PDF, electronic records, access to the information on a website, or some combination shall be determined by the aircraft OEM.

5. Minimum Information Requirements

- 5.1 The following information shall be furnished by the manufacturer or seller at the time of sale of each airplane or airplane kit to the first end-user.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

- 5.1.1 The information plate specified in Section 6.
 - 5.1.2 The Pilot's Operating Handbook (POH) specified in Section 7.
 - 5.1.3 The maintenance manual specified in Section 8.
 - 5.1.4 The component OEM's manuals specified in Section 9.
 - 5.1.5 The aircraft OEM's statement of compliance specified in Section 10.
 - 5.1.6 The aircraft OEM's product/component registration information specified in Section 11.
 - 5.1.7 The aircraft records specified in Section 12.
- 5.2 The following information shall be furnished by the manufacturer or seller at the time of sale of each airplane kit to the first end-user:
- 5.2.1 The Airplane Kit Assembly Instruction (KAI) specified in Section 13.

6. Information Plate

6.1 *General*—A manufacturer-issued fire proof information plate, printed in English or as defined by the governing civil aviation authority or agency in which the aircraft was initially sold, shall be permanently affixed to the aircraft in a visible location and shall be designed to remain legible for the expected life of the aircraft.

6.2 *Material*—The information plate shall be made from stainless steel, not less than 0.46 mm (0.018 in.) thick; mild steel (corrosion-protected), not less than 0.46 mm (0.018 in.) thick; or alternative materials that provide equivalent protection.

6.3 *Information*—The information plate shall contain the following information.

6.3.1 *Serial Number*—A unique identifying number or code issued by the aircraft manufacturer.

6.3.2 *Name of Aircraft OEM*—The name of the aircraft OEM and country.

6.3.3 *Model*—A unique identifying name, number, or code assigned to each manufactured type of aircraft having the same basic configuration or components and issued by the aircraft OEM.

7. Pilot's Operating Handbook (POH)

7.1 The aircraft OEM shall deliver to the first end user of the aircraft the Pilot's Operating Handbook, required by Specification F2245 in form that is readily accessible in flight.

8. Maintenance Manual

8.1 The aircraft OEM shall deliver to the first end user of the aircraft the Maintenance Manual required by Practice F2483.

9. Component Original Equipment Manufacturer's (OEM) Manuals

9.1 If the aircraft OEM has not incorporated the following information into their aircraft manuals, the following component OEM documentation shall be provided to the first end-user.

9.1.1 Component OEM manuals for the engine, propeller, and accessories sold with the aircraft.

9.1.1.1 For this standard, accessories are defined as any assembly, subassembly, or component that requires some type of pilot/owner maintenance or operation.

9.1.2 Maintenance and inspection procedures for the engine.

9.1.3 Maintenance and inspection procedures for the propeller.

9.1.4 Component OEM manuals may remain in the style, format, arrangement, and medium (paper, PDF, etc.) provided by the component OEM. They may cover such topics as: setup, installation, adjustment, operation, repair, overhaul, other authorized maintenance, and parts ordering.

9.1.5 Maintenance and inspection procedures for accessories, as applicable.

10. Aircraft OEM's Statement of Compliance

10.1 Each aircraft shall include a statement identifying the ASTM or other applicable standards used in designing and manufacturing the product. A copy of the statement provided to the Civil Aviation Authority is acceptable.

11. Product Registration Information

11.1 The aircraft OEM shall provide any product registration requirements for items not already registered by the aircraft OEM. The information transferred should define how the first end-user registers a component OEM product such as the engine, propeller, primary flight displays, autopilot, GPS, and navigational radios.

12. Aircraft Records

12.1 The aircraft OEM shall provide the aircraft records required by the Civil Aviation Authority (CAA) of the country where the first end user will register the aircraft.

NOTE 1—Requirements for aircraft records are typically dictated by a combination of ASTM standards requirements and applicable Civil Aviation Authority (CAA) requirements. This generally includes such things as airframe logs, engine logs, airworthiness certificates, operating limitations, etc.

13. Airplane Kit Assembly Instructions (KAI)

13.1 Each kit-built airplane shall have a Kit Assembly Instructions (KAI) provided that complies with Practice F2563.

14. Keywords

14.1 flight training supplement; FTS; light sport aircraft; light sport airplane; maintenance manual; pilot's operating handbook; POH; special airworthiness certificate