



Standard Specification for Installation of Powerplant Systems¹

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1. Scope

1.1 This specification covers minimum requirements for the installation and integration of powerplant system units.

1.2 This specification is applicable to small aeroplanes as defined in the F44 terminology standard. Use of the term airplane is used throughout this specification and will mean “small airplane.”

1.3 The applicant for a design approval must seek the individual guidance to their respective CAA body concerning the use of this standard as part of a certification plan. For information on which CAA regulatory bodies have accepted this standard (in whole or in part) as a means of compliance to their Small Aircraft Airworthiness regulations (Hereinafter referred to as “the Rules”), refer to the ASTM F44 webpage (www.ASTM.org/COMITTEE/F44.htm) which includes CAA website links.

1.4 References within this standard normally refer to documents in United States legal system. **Appendix X1** cross references documents in the legal system of other countries of corresponding content.

1.5 *Units*—The values stated are SI units followed by imperial units in brackets. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.6 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

¹ This specification is under the jurisdiction of ASTM Committee F44 on General Aviation Aircraft and is the direct responsibility of Subcommittee F44.40 on Powerplant.

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2. Referenced Documents

2.1 *ASTM Standards*:²

- F2339 Practice for Design and Manufacture of Reciprocating Spark Ignition Engines for Light Sport Aircraft
- F2506 Specification for Design and Testing of Light Sport Aircraft Propellers
- F2538 Practice for Design and Manufacture of Reciprocating Compression Ignition Engines for Light Sport Aircraft
- F2840 Practice for Design and Manufacture of Electric Propulsion Units for Light Sport Aircraft
- F3060 Terminology for Aircraft
- F3066/F3066M Specification for Powerplant Systems Specific Hazard Mitigation

2.2 *Code of Federal Regulations (CFR)*:³

- 14 CFR part 33 Airworthiness Standards: Aircraft Engines
- 14 CFR part 35 Airworthiness Standards: Propellers
- 14 CFR part 34 Fuel Venting and Exhaust Emission Requirements for Turbine Powered Airplanes

2.3 *Federal Aviation Administration (FAA) Publications*:⁴

- AC 23-8C Flight Test Guide for certification of part 23 airplanes
- CAR 13 Aircraft Engines Airworthiness
- TSO C77 Technical Standard Order – Gas Turbine Auxiliary Power Units

2.4 *JAA Documents*:⁵

- JAR-E Engines
- JAR-P Propellers
- JAR-22 Gliders and Powered Gliders

2.5 *EASA Documents*:⁶

- CS-22 Certification Specifications for Gliders and Powered Gliders
- CS-E Certification Specifications for Engines

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.

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, www.access.gpo.gov.

⁴ Available from Federal Aviation Administration (FAA), 800 Independence Ave., SW, Washington, DC 20591, www.faa.gov.

⁵ Available from Global Engineering Documents, 15 Inverness Way, East Englewood, CO 80112-5704, global.ihs.com.

⁶ Available from EASA European Aviation Safety Agency, Postfach 10 12 53, D-50452 Koeln, Germany, easa.europa.eu.