



**FAA
Aircraft Certification Service
Small Airplane Directorate, ACE-100**

Special Light-Sport Aircraft (SLSA) with ADS-B “Out” *Equipment Certification & Installation in SLSA*

SLSA Manufacturer’s Considerations for ADS-B “Out” Equipment

The aircraft manufacturer is responsible for both the design and quality of all equipment installed in the aircraft. This also means that design changes to the articles or any components, features or functions are to be reviewed by the aircraft manufacturer to ensure that after a change or modification to the article and installation in the aircraft, the aircraft still meets the requirements in the applicable FAA accepted consensus standard(s). The aircraft manufacturer may install the ADS-B equipment during the original production of the aircraft or provide instructions, as detailed below, to an owner/operator for installation after original airworthiness certification.

ADS-B “Out” Equipment Design and Performance Certification

- The ADS-B equipment must meet the performance requirements in TSO–C166b; or TSO–C154c [Ref. Docket No. FAA–2007–29305; Amdt. No. 91–334]

ADS-B “Out” Equipment Installation in the Aircraft

- The installation (i.e., alteration) must be performed in accordance with an applicable consensus standard and authorized by the aircraft’s manufacturer
 - Ref. 14 CFR 21.181(a)(3) & 14 CFR 91.327(b)(5)
 - Ref. ASTM F2483 Section 9. Major Repairs and Alterations
- The aircraft manufacturer obtains ADS-B “Out” compliant equipment for installation
NOTE: The aircraft manufacturer is responsible for the compliance of the equipment even if this compliance is based on a statement from the equipment manufacturer
- The aircraft manufacturer provides written instructions to each aircraft owner/operator to complete the installation, conduct any required ground and flight tests, record the alteration in the aircraft’s documentation and provide a written statement that the altered aircraft will still meet the requirements of the applicable design and performance specification subsequent to the alteration
- The aircraft manufacturer provides updates to the Pilot’s Operating Handbook (POH) and Maintenance Manual, as applicable [Ref. applicable ASTM consensus standard]

If we can provide any assistance to you in the future, please do not hesitate to contact Mr. Terry L. Chasteen, Light-Sport Aircraft Program Manager, at 816-329-4147; email terry.chasteen@faa.gov.