



## **SECTION 1: Aircraft Design Definitions**

### **1.1 Aircraft built to conform with CAA-UK Type Certificate Data Sheet BA28 Issue 4**

#### **1.1.1.I FLS Sprint 160**

Type design definition DS/C4/01 Issue A or subsequent

#### **1.1.1.II Certification Basis**

The following requirements are the basis of certification of the type design:

JAR 23 Draft Issue 4 - January 1992

Special Conditions as defined in CAA letter dated 29 October 1992  
(HIRF and Lightning)

Airworthiness Notice No. 88

Low Volts Warning

Airworthiness Notice No. 76

Electrical Power Supplies for

Aircraft Radio Systems

CAA Specification No. 4

Safety Harnesses

#### **Exemptions**

The emergency landing requirements of JAR 23.561 and JAR 23.562 were not required to be met.

Compliance with JAR 23.951(b) for the fuel selector was accepted on the basis of equivalent safety.

Compliance with JAR 23.779 and JAR 23.781 for the flap lever has been accepted on the basis of equivalent safety.

#### **1.1.1.III Technical Characteristics and Operating Limitations**

Engine	One Lycoming AE10-320-DIB
Propeller	Hoffman HO-V72L-V/V180 DU (ITP)
Fuel	100 LL Aviation Gasoline
Airspeed Limits	Refer to AFM
C.G. Range	Refer to AFM
Maximum Weight	Pre mod C4/Mod/027
	Max. Take-off and landing 1920 lbf
	Max. Zero Fuel Weight 1850 lbf
	Max Aerobatic Weight 1920 lbf
	Post mod C4/Mod/027

	Max. Take-off and landing	2050 lbf
	Max. Zero Fuel Weight	1870 lbf
	Max Aerobatic Weight	1920 lbf
Max. Number of Occupants	Two	
Maximum Baggage	50 lbf	
Fuel Capacity	Usable fuel both tanks	25 Imperial Gallons
	Total Capacity both tanks	26 Imperial Gallons
	Unusable fuel both tanks	1 Imperial Gallons unusable
Oil Capacity	Total Sump Capacity	13.3 Imperial pints
Tyre pressures	Nose wheel	32 lbf/in <sup>2</sup>
	Main wheels	25 lbf/in <sup>2</sup>
Stall Warning	Artificial stall warning is provided aurally by equipment consisting of a vane and horn.	
Flight Manual	LVX/C4/TP/62	

### 1.1.2.I FLS Club Sprint

Same as the Sprint 160 except for the following differences.

#### 1.1.1.I Club Sprint

Type design definition DS/C3/01 Issue A or subsequent

### 1.1.2.III Technical Characteristics and Operating Limitations

Engine	One Lycoming 0235-L2A	
Propeller	McCauley 1A135/JCM/8153	
Maximum Weight	Max. Take-off and landing	1850 lbf
	Max. Zero Fuel Weight	1850 lbf
	Max Aerobatic Weight	1850 lbf
Flight Manual	LVX/C3/TP/52	

## 1.2 Data Pertinent to all Models

### 1. Fuselage Datum

Fuselage reference datum is 45.4 inches ahead of the front face of the fireproof bulkhead.

### 2. Weight and Balance

Current weight and balance report including list of equipment in certificated empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.

### 3. Placards

All placards that are required by the Flight Manual must be installed in the appropriate locations.

## **SECTION 2: Airworthiness Directives**

As of June 2007 no Airworthiness Directives have been published.

### **NOTE**

1. Any Airworthiness Directives published after June 2007 can be found on the EASA website (<http://easa.eu.int>).

2. No service bulletins have been published for this type.

## **SECTION 3: Occurrence Reporting**

This Specific Airworthiness Specification may be used as a basis for the issue of a Restricted Certificate of Airworthiness in accordance with 21A.173(b)(2) under the following conditions:

- a) The holder of a Restricted Certificate of Airworthiness based on this Specific Airworthiness Specification shall report to the State of Registry all information related to occurrences associated with the operation of the aircraft which affects or could affect the safety of operation<sup>1</sup>.
- b) Such reports shall be despatched within 72 hours of the time when the occurrence was identified unless exceptional circumstances prevent this.
- c) The State of Registry shall forward the information received under (a) to the Agency when it relates to failures, malfunctions, defects or other occurrences which cause or might cause adverse effects on the continuing airworthiness of the aircraft.

## **SECTION 4: Other Limitations**

Mandatory maintenance instructions

The Certification Maintenance Requirements, including Life Limited Parts for all variants are contained in the Maintenance Manual LVX/C4/TP/60.

CAA Noise Type Certificate No. 187 Issue 3 is applicable.

This aircraft is limited to non-commercial operation.

<sup>1</sup> AMC 20-8 contains guidance describing the occurrences which are to be reported. This document can be found on the EASA website under Regulations>Certification Specifications:

[http://www.easa.europa.eu/doc/Agency\\_Mesures/AMC\\_GM/decision\\_ED\\_2003\\_12\\_RM.pdf](http://www.easa.europa.eu/doc/Agency_Mesures/AMC_GM/decision_ED_2003_12_RM.pdf)

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**SECTION 5: Change Record**

Issue 1 Initial issue 28 June 2007

Issue 2 Correction of typographical errors:

Engine designation corrected from AE1O to AEIO

CAA TCDS corrected from BA21 to BA28