

European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET FOR NOISE

AVRO 146

**Type Certificate Holder:
BAE Systems (Operations) Ltd**

Prestwick International Airport
Monkton, Ayrshire, Scotland
KA9 2RW
United Kingdom

For models : AVRO 146-RJ100
AVRO 146-RJ70
AVRO 146-RJ85
BAe 146 Series 100-01
BAe 146 Series 100-21
BAe 146 Series 100-31
BAe 146 Series 200-01
BAe 146 Series 200-11
BAe 146 Series 300
BAe 146 Series 300-11
BAe 146 Series 300-21
BAe 146 Series 301

INTENTIONALLY LEFT BLANK

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **AVRO 146-RJ100**

Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1F**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2043	46.039	40.142	88,1	95,0	86,1	93,8	97,6	98,9
A2042	45.132	39.240	88,1	94,9	85,4	93,6	97,4	98,9
A5992	44.999	40.142	88,1	94,9	85,3	93,6	97,6	98,8
A8544	44.225	40.142	88,2	94,9	84,7	93,5	97,6	98,8
A8912	44.225	39.240	88,2	94,9	84,7	93,5	97,4	98,8
A2041	44.225	38.329	88,2	94,9	84,7	93,5	97,3	98,8
A2040	43.091	37.648	88,3	94,8	83,8	93,4	97,2	98,7

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **AVRO 146-RJ70**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1F**
 Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **None**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2047	40.823	37.875	86,9	94,6	84,1	93,1	97,5	98,5
A2046	38.102	37.875	87,2	94,3	81,9	92,7	97,5	98,3
A2045	36.287	36.060	87,4	94,1	80,5	92,4	97,2	98,1
A2044	36.287	35.150	87,4	94,1	80,5	92,4	97,1	98,1

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **AVRO 146-RJ70**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1F**
 Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **HCM00020R (Full thrust variant)**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2052	43.091	37.875	88,6	94,8	83,6	93,4	97,5	98,7
A2051	40.823	37.875	88,8	94,6	82,0	93,1	97,5	98,5
A2050	38.102	37.875	89,1	94,3	80,2	92,7	97,5	98,3
A2049	36.287	36.060	89,2	94,1	79,1	92,4	97,2	98,1
A2048	36.287	35.150	89,2	94,1	79,1	92,4	97,1	98,1

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **AVRO 146-RJ85**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1F**
 Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **None**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2058	43.998	38.555	88,4	94,9	84,3	93,5	97,3	98,8
A2057	42.184	38.555	88,6	94,7	83,0	93,2	97,3	98,6
A2056	42.184	36.740	88,6	94,7	83,0	93,2	97,1	98,6
A2055	40.597	35.150	88,7	94,6	81,9	93,0	96,9	98,5
A2054	38.555	38.555	88,9	94,4	80,4	92,7	97,3	98,3
A2053	36.287	35.150	89,1	94,1	79,0	92,4	96,9	98,1

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **AVRO 146-RJ85**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **LF507-1F**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels*

HCM60856A (Reduction of maximum take-off weight)

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A13630	41.800	38.555	88,6	94,7	82,7	93,2	97,3	98,6

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 100-01**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-3A**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2059	34.473	32.817	88,0	94,0	79,0	92,1	94,9	98,0

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 100-01**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2060	34.473	32.817	88,0	94,0	79,0	92,1	94,9	98,0

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 100-21**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-3A**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2061	37.308	33.270	87,6	94,2	82,3	92,5	95,2	98,2

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 100-21**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2062	37.308	33.270	87,6	94,2	82,3	92,5	95,2	98,2

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 100-31**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2063	38.102	35.154	87,7	94,3	81,8	92,7	95,6	98,3

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 200-01**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-3A**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2064	40.597	35.153	87,3	94,6	84,9	93,0	95,6	98,5

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 200-01**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2065	40.597	35.153	87,3	94,6	84,9	93,0	95,6	98,5

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 200-11**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2066	42.184	36.741	87,3	94,7	85,2	93,2	95,8	98,6
A5808	41.368	35.788	87,3	94,6	85,2	93,1	95,8	98,6

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 300**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A8998	44.225	38.329	86,7	94,9	86,5	93,5	95,6	98,8

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **BAe 146 Series 300**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1H**
 Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **None**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2070	46.039	40.142	87,6	95,0	86,3	93,8	97,6	98,9
A2069	45.132	39.235	87,7	94,9	85,6	93,6	97,4	98,9
A2068	44.225	38.329	87,8	94,9	84,9	93,5	97,3	98,8
A2067	43.091	37.648	87,9	94,8	84,0	93,4	97,2	98,7

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 300-11**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2071	43.091	37.648	87,0	94,8	86,0	93,4	96,0	98,7
A5837	42.999	37.648	87,0	94,8	86,0	93,4	96,0	98,7

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd**

Aircraft Type Designation* **BAe 146 Series 300-21**

Engine Manufacturer* **Lycoming**

Engine Type Designation* **ALF 502R-5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **Standard Option 71-1 (Nacelle acoustic treatment)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment

Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2072	44.225	38.329	86,7	94,9	86,5	93,5	95,6	98,8

* Items so marked shall be included on EASA Form 45.

Type Certificate Holder* **BAE Systems (Operations) Ltd** Aircraft Type Designation* **BAe 146 Series 301**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **LF507-1H**
 Additional modifications essential to meet the requirements or needed to attain the certificated noise levels* **None**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off* (kg)	Landing* (kg)	Level*	Limit	Level*	Limit	Level*	Limit
A2073	42.184	37.648	87,9	94,7	84,3	93,2	97,6	98,6

* Items so marked shall be included on EASA Form 45.

Change Record

Issue	Date	Changes
Issue 1	04 November 2009	Initial Issue
Issue 2	26 July 2010	Revised masses for several records in accordance with BAE certificated masses.