

**Civil Aviation Authority
United Kingdom**



TYPE-CERTIFICATE DATA SHEET FOR NOISE

UK.TC.A.00134

for

BAe 146 / AVRO 146-RJ Series

Type Certificate Holder

BAE SYSTEMS (Operations) Limited
Trading as BAE SYSTEMS Regional Aircraft

Prestwick International Airport
Monkton
KA9 2RW
United Kingdom

Model(s): BAe 146 Series 100, 200 and 300
 AVRO 146 Series RJ70, RJ85, RJ100, and RJ115

Issue 1

Date of issue: 26 September 2025

INTENTIONALLY LEFT BLANK

Type Designation	Airframe Modification	MTOW (kg)	MLW (kg)	Engine	Engine Modification	Regulation Ed./Amend. Chapter	Lateral Level (EPNdB)	Lateral Limit (EPNdB)	Flyover Level (EPNdB)	Flyover Limit (EPNdB)	Approach Level (EPNdB)	Approach Limit (EPNdB)	Notes	Record Number
AVRO 146-RJ100	None	43,091	37,648	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.3	94.8	83.8	93.4	97.2	98.7	None	A2040
AVRO 146-RJ100	None	44,000	40,142	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.2	94.9	84.5	93.5	97.6	98.8	None	A19173
AVRO 146-RJ100	None	44,225	38,329	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.2	94.9	84.7	93.5	97.3	98.8	None	A2041
AVRO 146-RJ100	None	44,225	39,240	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.2	94.9	84.7	93.5	97.4	98.8	None	A8912
AVRO 146-RJ100	None	44,225	40,142	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.2	94.9	84.7	93.5	97.6	98.8	None	A8544
AVRO 146-RJ100	None	44,999	40142	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.1	94.9	85.3	93.6	97.6	98.8	None	A5992
AVRO 146-RJ100	None	45,132	39,240	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.1	94.9	85.4	93.6	97.4	98.9	None	A2042
AVRO 146-RJ100	None	45,300	40,142	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.1	95.0	85.5	93.7	97.6	98.9	None	A19172
AVRO 146-RJ115	None	46,039	40,142	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.1	95.0	86.1	93.8	97.6	98.9	None	A2043
AVRO 146-RJ70	None	36,287	35,150	Textron Lycoming LF507-1F	None	Annex 16/I 2/3 Chapter 3	87.4	94.1	80.5	92.4	97.1	98.1	None	A2044
AVRO 146-RJ70	None	36,287	35,150	Textron Lycoming LF507-1F	HCM00020R Full thrust variant	Annex 16/I 2/3 Chapter 3	89.2	94.1	79.1	92.4	97.1	98.1	None	A2048
AVRO 146-RJ70	None	36,287	36,060	Textron Lycoming LF507-1F	None	Annex 16/I 2/3 Chapter 3	87.4	94.1	80.5	92.4	97.2	98.1	None	A2045
AVRO 146-RJ70	None	36,287	36,060	Textron Lycoming LF507-1F	HCM00020R Full thrust variant	Annex 16/I 2/3 Chapter 3	89.2	94.1	79.1	92.4	97.2	98.1	None	A2049
AVRO 146-RJ70	None	38,102	37,875	Textron Lycoming LF507-1F	None	Annex 16/I 2/3 Chapter 3	87.2	94.3	81.9	92.7	97.5	98.3	None	A2046
AVRO 146-RJ70	None	38,102	37,875	Textron Lycoming LF507-1F	HCM00020R Full thrust variant	Annex 16/I 2/3 Chapter 3	89.1	94.3	80.2	92.7	97.5	98.3	None	A2050
AVRO 146-RJ70	None	40,823	37875	Textron Lycoming LF507-1F	None	Annex 16/I 2/3 Chapter 3	86.9	94.6	84.1	93.1	97.5	98.5	None	A2047
AVRO 146-RJ70	None	40,823	37875	Textron Lycoming LF507-1F	HCM00020R Full thrust variant	Annex 16/I 2/3 Chapter 3	88.8	94.6	82.0	93.1	97.5	98.5	None	A2051
AVRO 146-RJ70	None	43,091	37875	Textron Lycoming LF507-1F	HCM00020R Full thrust variant	Annex 16/I 2/3 Chapter 3	88.6	94.8	83.6	93.4	97.5	98.7	None	A2052
AVRO 146-RJ85	None	36,287	35,150	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	89.1	94.1	79.0	92.4	96.9	98.1	None	A2053
AVRO 146-RJ85	None	38,555	38,555	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.9	94.4	80.4	92.7	97.3	98.3	None	A2054
AVRO 146-RJ85	None	40,597	35,150	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.7	94.6	81.9	93.0	96.9	98.5	None	A2055
AVRO 146-RJ85	None	42,184	36,740	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.6	94.7	83.0	93.2	97.1	98.6	None	A2056
AVRO 146-RJ85	None	42,184	38,555	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.6	94.7	83	93.2	97.3	98.6	None	A2057
AVRO 146-RJ85	None	43,998	38555	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.4	94.9	84.3	93.5	97.3	98.8	None	A2058
AVRO 146-RJ85	HCM60843A Reduction of maximum take-off weight to 41,308 kg	41,308	38555	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.6	94.6	82.4	93.1	97.3	98.6	None	A16307
AVRO 146-RJ85	HCM60856A Reduction of maximum take-off weight to 41,800 kg	41,800	38555	Textron Lycoming LF507-1F	None	Annex 16/I Chapter 3	88.6	94.7	82.7	93.2	97.3	98.6	None	A13630

Type Designation	Airframe Modification	MTOW (kg)	MLW (kg)	Engine	Engine Modification	Regulation Ed./Amend. Chapter	Lateral Level (EPNdB)	Lateral Limit (EPNdB)	Flyover Level (EPNdB)	Flyover Limit (EPNdB)	Approach Level (EPNdB)	Approach Limit (EPNdB)	Notes	Record Number
BAe 146 Series 100	None	34,473	32,817	Avco Lycoming ALF502 R-3A	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	88.0	94.0	79.0	92.1	94.9	98.0	None	A2059
BAe 146 Series 100	None	34,473	32,817	Avco Lycoming ALF502 R-3	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	90.4	94	82.8	92.1	97.8	98	None	E700229
BAe 146 Series 100	None	37,308	33,270	Avco Lycoming ALF502 R-3A	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	87.6	94.2	82.3	92.5	95.2	98.2	None	A2061
BAe 146 Series 100	None	37,308	33,270	Avco Lycoming ALF502 R-5	None	Annex 16/I Chapter 3	90.6	94.2	84.9	92.5	97.9	98.2	None	E700231
BAe 146 Series 100	None	37,308	33,270	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	87.6	94.2	82.3	92.5	95.2	98.2	None	A2062
BAe 146 Series 100	None	37,308	33,270	Avco Lycoming ALF502 R-3	None	Annex 16/I Chapter 3	90.1	94.2	85.9	92.5	97.9	98.2	None	E700228
BAe 146 Series 100	None	37,308	33,270	Avco Lycoming ALF502 R-3	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	86.9	94.2	83.1	92.5	95.2	98.2	None	E700230
BAe 146 Series 100	None	38,101	35,153	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I Chapter 3	87.7	94.3	81.8	92.7	95.6	98.3	None	A2063
BAe 146 Series 200	None	40,597	35,153	Avco Lycoming ALF502 R-3A	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.3	94.6	84.9	93.0	95.6	98.5	None	A2064
BAe 146 Series 200	None	40,597	35,153	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.3	94.6	84.9	93	95.6	98.5	None	A2065
BAe 146 Series 200	None	40,597	35,153	Avco Lycoming ALF502 R-3	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	86.6	94.6	85.9	93	95.6	98.5	None	E700232
BAe 146 Series 200	None	41,368	35,788	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.3	94.6	85.2	93.1	95.8	98.6	None	A5808
BAe 146 Series 200	None	42,184	36,740	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.3	94.7	85.2	93.2	95.8	98.6	None	A2066
BAe 146 Series 300	None	40,597	35,153	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.3	94.6	84.9	93.0	95.6	98.5	None	E700233
BAe 146 Series 300	None	43,091	37,648	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	87.0	94.8	86.0	93.4	96.0	98.7	None	A15901
BAe 146 Series 300	None	43,091	37,648	Textron Lycoming LF507-1H	None	Annex 16/I 2/3 Chapter 3	87.9	94.8	84.0	93.4	97.2	98.7	None	A2067
BAe 146 Series 300	None	44,225	38,329	Avco Lycoming ALF502 R-5	Standard Option 71-1 Nacelle acoustic treatment	Annex 16/I 2/3 Chapter 3	86.7	94.9	86.5	93.5	95.6	98.8	None	A8998
BAe 146 Series 300	None	44,225	38,329	Textron Lycoming LF507-1H	None	Annex 16/I 2/3 Chapter 3	87.8	94.9	84.9	93.5	97.3	98.8	None	A2068
BAe 146 Series 300	None	45,132	39,235	Textron Lycoming LF507-1H	None	Annex 16/I 2/3 Chapter 3	87.7	94.9	85.6	93.6	97.4	98.9	None	A2069

Administration**I. Acronyms and Abbreviations**

Acronym / Abbreviation	Definition
Ed./Amend.	Edition/Amendment
EPNdB	Effective perceived noise decibel
MTOW	Maximum take-off weight
MLW	Maximum landing weight
Regulation Annex 16/I	ICAO Annex 16 Volume I
TCDSN	Type Certificate Data Sheet for Noise

II. Type Certificate Holder Record

TCH Record	Period
BAE SYSTEMS (Operations) Limited Trading as BAE SYSTEMS Regional Aircraft Prestwick International Airport Monkton KA9 2RW United Kingdom	Present.

III. Amendment Record

TCDSN Issue No.	TCDSN Issue Date	Changes	TC Issue and Date
1	26 September 2025		Issue 1 26 September 2025