



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET FOR NOISE**

No. EASA.A.397

for

HS 748

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

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

**(Aircraft manufactured by British Aerospace/Hawker Siddeley Aviation/A.V. Roe and Company 1960
through 1988)**

For models: HS 748 Series 1
HS 748 Series 2
HS 748 Series 2A
HS 748 Series 2B

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Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 534-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B46	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B45	Dowty Rotol	CR.212/4-30-4/22	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-
B1099	Dowty Rotol	CR.212/4-30-4/22	19,995	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-
B101	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B98	Dowty Rotol	CR.251/4-30-4/49	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-
B1100	Dowty Rotol	CR.251/4-30-4/49	19,995	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder ¹	BAE Systems (Operations) Ltd	Aircraft Type Designation ¹	HS 748 Series 2A
Engine Manufacturer ¹	Rolls-Royce	Engine Type Designation ¹	Dart 535-2
Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹		6408 or 6517 (BAe Intake hushkit (RR Modification 1800))	
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 3

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B79	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	94.2	98.0	-
B77	Dowty Rotol	CR.212/4-30-4/22	20,183	19,504	93.4	94.0	88.7	89.0	94.2	98.0	-
B96	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	94.2	98.0	-
B93	Dowty Rotol	CR.251/4-30-4/49	20,183	19,504	93.4	94.0	88.7	89.0	94.2	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 535-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B83	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B81	Dowty Rotol	CR.212/4-30-4/22	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-
B102	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B99	Dowty Rotol	CR.251/4-30-4/49	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 536-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800))**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B80	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	94.2	98.0	-
B78	Dowty Rotol	CR.212/4-30-4/22	20,183	19,504	93.4	94.0	88.7	89.0	94.2	98.0	-
B97	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	94.2	98.0	-
B94	Dowty Rotol	CR.251/4-30-4/49	20,183	19,504	93.4	94.0	88.7	89.0	94.2	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd**

Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce**

Engine Type Designation¹ **Dart 536-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹

6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B84	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B82	Dowty Rotol	CR.212/4-30-4/22	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-
B103	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B100	Dowty Rotol	CR.251/4-30-4/49	20,183	19,504	93.4	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 7 Mk 532-2L**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **None**

Noise Certification Basis **ICAO** Edition / Amendment Chapter¹

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B1145	Dowty Rotol	CR.201/4-30-4/20	21,092	19,504							2
B1253	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504							2
B1254	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504							2

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2A**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 7 Mk 534-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **None**

Noise Certification Basis **ICAO** Edition / Amendment Chapter¹

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B1255	Dowty Rotol	CR.201/4-30-4/20	21,092	19,504							2
B1256	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504							2
B1257	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504							2

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 534-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **None**

Noise Certification Basis Edition / Amendment Chapter¹

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B47	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504							2
B104	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504							2

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 534-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800))**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B48	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B107	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 534-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B89	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B110	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**
 Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 535-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **None**

Noise Certification Basis Edition / Amendment Chapter¹

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B85	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504							2
B105	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504							2

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 535-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800))**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B87	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B108	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd**

Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce**

Engine Type Designation¹ **Dart 535-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹

6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B90	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B111	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 536-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **None**

Noise Certification Basis Edition / Amendment Chapter¹

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B86	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504							2
B106	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504							2

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd** Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce** Engine Type Designation¹ **Dart 536-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹ **6408 or 6517 (BAe Intake hushkit (RR Modification 1800))**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B88	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B109	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

Type Certificate Holder¹ **BAE Systems (Operations) Ltd**

Aircraft Type Designation¹ **HS 748 Series 2B**

Engine Manufacturer¹ **Rolls-Royce**

Engine Type Designation¹ **Dart 536-2**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹

6408 or 6517 (BAe Intake hushkit (RR Modification 1800)), RR Mod. 1860 (Modifications to engine compressor and turbine assemblies)

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

Chapter¹ **3**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Maximum Mass		Lateral/Full Power EPNL		Flyover EPNL		Approach EPNL		See Note
			Take-off ¹ (kg)	Landing ¹ (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	
B91	Dowty Rotol	CR.212/4-30-4/22	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-
B112	Dowty Rotol	CR.251/4-30-4/49	21,092	19,504	93.3	94.0	88.7	89.0	92.8	98.0	-

¹ See Note 1.

TCDSN EASA.A.397 Notes

1. Items so marked shall be included on EASA Form 45.
2. This aircraft type conforms with the provisions of Article 6.1 of Regulation 216/2008 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of the date of type certification.

Change Record

Issue	Date	Changes
Issue 1	04 November 2009	Initial Issue
Issue 2	10 July 2012	Addition of HS 748 Series 1. Additional records for Series 2 and Series 2A. Revision to engine and propeller designations in line with TCDS. Deletion of certification noise levels for Series 2B without modification.

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