Gulfstream GII, GIII, GIV, GV

Page 1 of 49

Date: 15 March 2024

TCDSN No.: EASA.IM.A.070

Issue: 11



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.A.070

for

Gulfstream GII, GIII, GIV, GV

Type Certificate Holder:
Gulfstream Aerospace Corporation

500 Gulfstream Road Savannah, GA, 31408 USA

For models:

G1159

G1159A

G1159B

GIV

GIV-X

G۷

GV-SP



Gulfstream GII, GIII, GIV, GV

Page 2 of 49 TCDSN No.: EASA.IM.A.070 Date: 15 March 2024 Issue: 11

INTENTIONALLY LEFT BLANK



Issue: 11

Page 3 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ G1159

(Commercial Designation GII)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Spey 511-8

Additional modifications essential to meet the requirements or needed to attain the ASC 175 (Chapter 2 hushkit)

certificated noise levels¹

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 2

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A5011	28,123	26,535	102.7	102.0	90.9	93.0	98.2	102.0	-



Issue: 11

Page 4 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ G1159

(Commercial Designation GII)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Spey 511-8

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

ASC 200 (Chapter 2 hushkit, wing tip tanks)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 2

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A5012	29,710	26,535	103.0	102.0	92.5	93.0	98.3	102.0	-

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 11

Page 5 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

G1159A

(Commercial Designation

GIII)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Spey 511-8

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

None

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

2

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo	
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A5014	31,615	26,535	103.4	102.0	91.1	93.0	97.3	102.0	-	
A5013	30,935	26,535	103.4	102.0	91.1	93.0	97.3	102.0	-	



Issue: 11

Page 6 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ **G1159B**

(Commercial Designation

GIIB)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Spey 511-8

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

None

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

2

FASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		500
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18903	31,615	26,535	103.4	102.0	91.1	93.0	97.3	102.0	-
A18904	30,935	26,535	103.4	102.0	91.1	93.0	97.3	102.0	-

¹ See Note 1.



Issue: 11

Page 7 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

 $\label{lem:continuous} \textbf{Additional modifications essential to meet the requirements or needed to attain the}$

None

certificated noise levels¹

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo	
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A8487	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-	
A3806	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-	



Issue: 11

Page 8 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 061 (49,000 lb. Zero Fuel Gross Weight Increase (with Speed Restriction) G-IV)

GIV

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

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A8485	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-

¹ See Note 1.



Issue: 11

Page 9 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GIV

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 061, ASC487 (49,000 lb. Zero Fuel Gross Weight Increase (with Speed Restriction) GIV, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 4

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15469	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-

¹ See Note 1.



Issue: 11

Page 10 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GIV

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 190 (Increased Ramp, Landing and Zero Fuel Gross Weight G-IV)

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

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		500
	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A3807	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-



Issue: 11

Page 11 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GIV

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 190, ASC 487 (Increased Ramp, Landing and Zero Fuel Gross Weight G-IV, Recertification Chapter 4)

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

FACA	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15471	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-

¹ See Note 1.



Issue: 11

Page 12 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GIV

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 261 (49,000 lb. Zero Fuel Gross Weight Increase G-IV)

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

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A8486	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-



Issue: 11

Page 13 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

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

ASC 261, ASC 487 (49,000 lb. Zero Fuel Gross Weight Increase G-IV, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

4

	EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo	
		Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
	A15468	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-	

¹ See Note 1.



Issue: 11

Page 14 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV

(Commercial Designation

G300)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

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

ASC 436 (G300 Modification)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

3

EASA - Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo	
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A8484	32,658	29,937	87.7	94.0	78.2	89.0	93.3	98.0	-	



Issue: 11

Page 15 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV

(Commercial Designation

G300)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

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

ASC 436, ASC 487 (G300 Modification, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

4

FASA	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15472	32,658	29,937	87.7	94.0	78.2	89.0	93.3	98.0	-



Issue: 11

Page 16 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ (Commercial Designation

G400)

GIV

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

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

ASC 440 (G400 Modification)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo	
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A8488	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-	



Type Certificate Holder¹

Issue: 11

Page 17 of 49 Date: 15 March 2024

> **Gulfstream Aerospace Corporation** Aircraft Type Designation¹ **GIV**

(Commercial Designation G400)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8

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

ASC 440, ASC 487 (G400 Modification, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 4

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15473	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 11

Page 18 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8

Additional modifications essential to meet the requirements or needed to attain the

ASC 487 (Recertification Chapter 4)

certificated noise levels¹

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Chapter¹

4

TASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		S00	
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A15474	33,838	29,937	87.6	94.0	79.0	89.0	93.3	98.0	-	
A15470	33,203	26,535	87.7	94.0	78.6	89.0	91.0	98.0	-	



Issue: 11

Page 19 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

(Commercial Designation G350)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 004 (S/N 4001 thru 4200, G350 Modification)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 3 / Amendment 7

Chapter¹

3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A4919	32,159	29,937	89.7	94.0	74.1	89.0	92.3	98.0	-

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 11

Page 20 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

(Commercial Designation G350)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 004 (S/N 4201 & Subs, G350 Modification, Recertification Chapter 4)

GIV-X

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		S 0 0
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18941	32,159	29,937	89.7	94.0	74.1	89.0	92.3	98.0	-

¹ See Note 1.



Issue: 11

Page 21 of 49 Date: 15 March 2024

Type Certificate Holder¹ **Gulfstream Aerospace Corporation** Aircraft Type Designation¹

GIV-X

(Commercial Designation

G350)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 004, ASC 007() (S/N 4001 thru 4200, G350 Modification, Reduced MLW)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 3 / Amendment 7

Chapter¹

3

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soc
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15570	32,159	26,535	89.7	94.0	74.1	89.0	92.5	98.0	-



Issue: 11

Page 22 of 49 Date: 15 March 2024

Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

(Commercial Designation

G350)

Engine Manufacturer¹

Type Certificate Holder¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 004, ASC 007() (S/N 4201 & Subs, G350 Modification, Reduced MLW, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 5 / Amendment 9

Chapter¹

4

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18942	32,159	26,535	89.7	94.0	74.1	89.0	92.5	98.0	-

¹ See Note 1.



Issue: 11

Page 23 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

G350)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

(Commercial Designation

Tay 611-8C

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

ASC 004, ASC 007(), ASC 064 (S/N 4001 thru 4200, G350 Modification, Reduced MLW, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 5 / Amendment 9

Chapter¹

4

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15483	32,159	26,535	89.7	94.0	74.1	89.0	92.5	98.0	-



Type Certificate Holder¹

Issue: 11

Page 24 of 49 Date: 15 March 2024

Gulfstream Aerospace Corporation Aircraft Type Designation¹

(Commercial Designation G350)

GIV-X

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 004, ASC 064 (S/N 4001 thru 4200, G350 Modification, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Ç00
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15478	32,159	29,937	89.7	94.0	74.1	89.0	92.3	98.0	-

¹ See Note 1.



Issue: 11

Page 25 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹

GIV-X

(Commercial Designation

G450)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

Additional modifications essential to meet the requirements or needed to attain the

ASC 005 (S/N 4001 thru 4200, G450 Modification)

certificated noise levels1

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 3 / Amendment 7

Chapter¹

3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A4918	33,520	29,937	89.5	94.0	75.8	89.0	92.3	98.0	-



Issue: 11

Page 26 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GIV-X

(Commercial Designation G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 005 (S/N 4201 thru 4239, G450 Modification, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		S 0 0
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18944	33,520	29,937	89.5	94.0	75.8	89.0	92.3	98.0	-

¹ See Note 1.



Issue: 11

Page 27 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ G

GIV-X

(Commercial Designation

G450)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 005 (S/N 4240 & Subs, G450 Modification, Recertification Chapter 4)

Cit

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 5 / Amendment 9

Chapter¹

4

FASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18945	33,838	29,937	89.5	94.0	76.2	89.0	92.3	98.0	-



Type Certificate Holder¹

Issue: 11

Page 28 of 49 Date: 15 March 2024

Gulfstream Aerospace Corporation Aircraft Type Designation GIV-X

(Commercial Designation G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 005, ASC 007() (S/N 4001 & 4200, G450 Modification, Reduced MLW)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 3 / Amendment 7 Chapter¹ 3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15568	33,520	26,535	89.5	94.0	75.8	89.0	92.5	98.0	-

¹ See Note 1.



Type Certificate Holder¹

Issue: 11

Page 29 of 49 Date: 15 March 2024

Gulfstream Aerospace CorporationAircraft Type Designation¹

(Commercial Designation G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 005, ASC 007() (S/N 4240 & Subs, G450 Modification, MTOW increase, Reduced MLW, Recertification Chapter 4)

GIV-X

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Soo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18947	33,838	26,535	89.5	94.0	76.2	89.0	92.5	98.0	-

¹ See Note 1.



Issue: 11

Page 30 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

(Commercial Designation

G450)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 005, ASC 007(), ASC 064 (S/N 4001 thru 4200, G450 Modification, Reduced MLW, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 5 / Amendment 9

Chapter¹

4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15481	33,520	26,535	89.5	94.0	75.8	89.0	92.5	98.0	-



Type Certificate Holder¹

Issue: 11

Page 31 of 49 Date: 15 March 2024

Aircraft Type Designation¹ GIV-X

(Commercial Designation G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

Gulfstream Aerospace Corporation

ASC 005, ASC 016 (S/N 4001 thru 4200, G450 Modification, MTOW increase)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 3 / Amendment 7 Chapter¹ 3

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A8918	33,838	29,937	89.5	94.0	76.2	89.0	92.3	98.0	-

¹ See Note 1.



Type Certificate Holder¹

Issue: 11

Page 32 of 49 Date: 15 March 2024

Bate. 13 Water 202-

Aircraft Type Designation¹ GIV-X

(Commercial Designation G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹ Tay 611-8C

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

Gulfstream Aerospace Corporation

ASC 005, ASC 016 (S/N 4201 thru 4239, G450 Modification, MTOW increase, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18943	33,838	29,937	89.5	94.0	76.2	89.0	92.3	98.0	-

¹ See Note 1.



Type Certificate Holder¹

Issue: 11

Page 33 of 49 Date: 15 March 2024

Gulfstream Aerospace Corporation Aircraft Type Designation¹

(Commercial Designation G450)

GIV-X

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 005, ASC 016, ASC 007() (S/N 4001 thru 4200, G450 Modification, MTOW increase, Reduced MLW)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 3 / Amendment 7 Chapter¹ 3

FASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15569	33,838	26,535	89.5	94.0	76.2	89.0	92.5	98.0	-

¹ See Note 1.



Issue: 11

Page 34 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

(Commercial Designation

G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 005, ASC 016, ASC 007() (S/N 4201 thru 4239, G450 Modification, MTOW increase, Reduced MLW, Recertification

Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A18946	33,838	26,535	89.5	94.0	76.2	89.0	92.5	98.0	-

¹ See Note 1.



Issue: 11

Page 35 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation

Aircraft Type Designation¹ GIV-X

G450)

Engine Manufacturer¹

Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

(Commercial Designation

Tay 611-8C

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

ASC 005, ASC 016, ASC 007(), ASC 064 (S/N 4001 thru 4200, G450 Modification, MTOW increase, Reduced MLW, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15482	33,838	26,535	89.5	94.0	76.2	89.0	92.5	98.0	-

¹ See Note 1.



Issue: 11

Page 36 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

GIV-X

(Commercial Designation

G450)

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

Tay 611-8C

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

ASC 005, ASC 016, ASC 064 (S/N 4001 thru 4200, G450 Modification, MTOW increase, Recertification Chapter 4)

Noise Certification Basis

ICAO Annex 16, Volume I

Edition / Amendment

Edition 5 / Amendment 9

Chapter¹

4

ΓΛ.	EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
	rd No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15	5480	33,838	29,937	89.5	94.0	76.2	89.0	92.3	98.0	-



Issue: 11

Page 37 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

(Commercial Designation G450)

GIV-X

Engine Manufacturer¹ Rolls-Royce Deutschland Ltd & Co. KG Engine Type Designation¹ Tay 611-8C

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

ASC 005, ASC 064 (S/N 4001 thru 4200, G450 Modification, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

EASA	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15479	33,520	29,937	89.5	94.0	75.8	89.0	92.3	98.0	-

¹ See Note 1.



Issue: 11

Page 38 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV

Edition / Amendment

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

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

ICAO Annex 16, Volume I

certificated noise levels1

Noise Certification Basis

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A1901	41,050	34,155	89.1	94.6	80.3	89.0	90.8	98.5	-

Edition 3 / Amendment 7

¹ See Note 1.



Chapter¹

3

Issue: 11

Page 39 of 49 Date: 15 March 2024

G۷

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

Additional modifications essential to meet the requirements or needed to attain the

certificated noise levels1

ASC 064 (Reduced MLW)

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

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		S 0 0	
EASA Record No.	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note	
A15566	41,050	34,019	89.1	94.6	80.3	89.0	90.9	98.5	-	

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 11

Page 40 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

Additional modifications essential to meet the requirements or needed to attain the

ASC 064, ASC 197 (Reduced MLW, Recertification Chapter 4)

certificated noise levels¹

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 4

EASA -	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15476	41,050	34,019	89.1	94.6	80.3	89.0	90.9	98.5	-



Issue: 11

Page 41 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

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

ASC 064A (Reduced MLW and MTOW)

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

Chapter¹ 3

EASA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15567	34,019	34,019	89.7	94.0	75.2	89.0	90.9	98.0	-

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 11

Page 42 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

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

ASC 064A, ASC 197 (Reduced MLW and MTOW, Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 4

FACA	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		500
EASA Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15475	34,019	34,019	89.7	94.0	75.2	89.0	90.9	98.0	-

¹ See Note 1.



Issue: 11

Page 43 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710A1-10

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

ASC 197 (Recertification Chapter 4)

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 4

EASA	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15477	41,050	34,155	89.1	94.6	80.3	89.0	90.8	98.5	-



Issue: 11

Page 44 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹ GV-SP

(Commercial Designation **G500**)

Chapter¹

3

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710C4-11

Edition / Amendment

Additional modifications essential to meet the requirements or needed to attain the ASC 010 (G500 Modification)

ICAO Annex 16, Volume I

certificated noise levels¹

Noise Certification Basis

	EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See
		Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	Note
	A5287	38,601	34,155	90.5	94.4	77.6	89.0	90.8	98.3	-

Edition 3 / Amendment 7

¹ See Note 1.



Issue: 11

Page 45 of 49 Date: 15 March 2024

Type Certificate Holder¹ Gulfstream Aerospace Corporation Aircraft Type Designation¹

(Commercial Designation G500)

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710C4-11

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

ASC 010, ASC 089 (G500 Modification, Recertification Chapter 4)

GV-SP

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 5 / Amendment 9 Chapter¹ 4

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		Coo
	Take-off¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15484	38,601	34,155	90.5	94.4	77.6	89.0	90.8	98.3	-



Noise Certification Basis

Issue: 11

Date: 15 March 2024

Type Certificate Holder¹ **Gulfstream Aerospace Corporation** Aircraft Type Designation¹ **GV-SP**

(Commercial Designation G550) Page 46 of 49

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG Engine Type Designation¹ BR700-710C4-11

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

ASC 011 (G550 Modification)

ICAO Annex 16, Volume I Edition / Amendment Edition 3 / Amendment 7 Chapter¹ 3

EASA	Maximu	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A1902	41,277	34,155	90.2	94.6	79.3	89.0	90.8	98.6	-



Type Certificate Holder¹

Issue: 11

Page 47 of 49 Date: 15 March 2024

> Aircraft Type Designation¹ **GV-SP**

(Commercial Designation G550)

Engine Manufacturer¹ Rolls Royce Deutschland Ltd & Co. KG

Engine Type Designation¹

BR700-710C4-11

Additional modifications essential to meet the requirements or needed to attain the

Gulfstream Aerospace Corporation

ASC 011, ASC 089 (G550 Modification, Recertification Chapter 4)

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment **Edition 5 / Amendment 9** Chapter¹ 4

EASA	Maximu	ım Mass	Lateral EPNL		Flyover EPNL		Approach EPNL		S 0 0
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
A15485	41,277	34,155	90.2	94.6	79.3	89.0	90.8	98.6	-

¹ See Note 1.



TE.CERT.00051-001 © European Union Aviation Safety Agency, 2024. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet. TCDSN No.: EASA.IM.A.070 Page 48 of 49

Issue: 11 Date: 15 March 2024

CS-36 Amendment level

ICAO, Annex 16, Volume I Amendment level	7	8	9	10	11-B	12	13
Corresponding CS-36 Amendment level	Initial	1	2	3	4	5	6

TCDSN EASA.IM.A.070 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.



TCDSN No.: EASA.IM.A.070 Page 49 of 49

Issue: 11 Date: 15 March 2024

Change Record

Issue	Date	Changes
Issue 1	22 March 2007	Initial Issue
Issue 2	30 April 2007	Revised
Issue 3	15 January 2008	Revised
Issue 4	19 November 2008	Revised
Issue 5	21 July 2010	Revised
Issue 6	10 December 2010	Update of the modification field, new records for chapter 4 recertification
Issue 7	23 May 2012	Records A15568-A15570 and A15481-A15483: Modification number
		revised.
Issue 8	12 June 2013	Records A15570, A15483, A18897, A18898, A15568, A15481, A18903 and
		A18904 added; Type designation revised from GIV-SP to GIV
Issue 9	08 October 2014	Added new records A18941 through A18947, added reference to
		a/c S/N to those records already existing for aircraft modified via
		ASC 004 and ASC 005
Issue 10	28 September 2015	Revised to fix data corruption issues
Issue 11	15 March 2024	Engine manufacturer revised