



Gama Aviation (Engineering) Ltd

Doc No. GAEL-1259DRP-01_09

GNS-430W/530W Navigation System SBAS Upgrade
& Certification of LPV Capability

For Installation on

Reg: LN-DAY MSN: 1608

Gama Aviation 

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- Design Query (DQ)

EASA Supplemental Type Certificate (STC)

SUPPLEMENTAL TYPE CERTIFICATE

10037701 REV. 3

This Supplemental Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to:

GAMA AVIATION (ENGINEERING) LTD.

**BUSINESS AVIATION CENTRE
FARNBOROUGH AIRPORT
FARNBOROUGH
Hampshire
GU14 7JF
UNITED KINGDOM**

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified below:

Original Type Certificate Number: SEE EASA APPROVED MODEL LIST

Type Certificate Holder: SEE EASA APPROVED MODEL LIST

Type: SEE EASA APPROVED MODEL LIST

Model: SEE EASA APPROVED MODEL LIST

Description of Design Change:

GNS-430W/530W navigation system SBAS upgrade and certification of LPV capability.

EASA Certification Basis:

The Certification Basis (CB) for the original product remains applicable to this certificate/ approval. The requirements for environmental protection and the associated certified noise and/ or emissions levels of the original product are unchanged and remain applicable to this certificate/ approval.

See Continuation Sheet(s)

For the European Aviation Safety Agency

Date of Issue: 07 March 2017



Dominique ROLAND
Head of General Aviation and
Remotely Piloted Aircraft Systems (RPAS)

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Associated Technical Documentation:

Installation in accordance with Gama Aviation Modification ref HL/MOD/1259 and Master Document List (MDL) ref MDL-1259 , Issue 8, 6 February 2017.

Operate in accordance with Gama Aviation Flight Manual Supplement ref AFMS-1259-01, issue 8, 7 February 2017.

Instructions for Continued Airworthiness (ICA) in accordance with Gama Aviation ICA ref ICA-1259, Issue 4, dated, 7 March 2016

or later revisions of the above listed documents approved by EASA.

Limitations/Conditions:

Prior to installation of this design change it must be determined that the interrelationship between this design change and any other previously installed design change and/ or repair will introduce no adverse effect upon the airworthiness of the product.

- End -

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EASA Approved Model List (AML)
10037701 Rev. 3
GAMA AVIATION (ENGINEERING) LTD.

TC Holder	Type Description	Model	TCDS Number
AIRCRAFT DESIGN & CERTIF.	D4 Fascination	D4 Fascination	EASA.A.019
AERO AT SP. Z.O.O.	AT-3 Series	AT-3 R100	EASA.A.021
AERO VODOCHODY AEROSPACE A.S.	Ae 270	Ae 270	EASA.A.060
AERODIF	Cap 20 and 230 Series	CAP20	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP20L/S200	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP21	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP230	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP231	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP231EX	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP232	EASA.A.369
AERODIF	CAP10	CAP10	EASA.A.370
AERODIF	CAP10	CAP10B	EASA.A.370
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-600 (Aerostar 600)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-601 (Aerostar 601)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-601P (Aerostar 601P)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-602P (Aerostar 602P)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-700P (Aerostar 700P)	US A17WE
AEROSTRUKTUR FASERVERBUNDTECH.	H 40	H 40	DE 1083
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 207	Bölkow 207	DE 643
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 207	Bölkow 207T	DE 643
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 208	Bölkow BO 208 C Junior	DE 644
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 208	Bölkow Junior	DE 644
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 209	BO 209 Monsun	DE 680
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 209	BO 209 S	DE 680
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 A 1	DE 679
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 K 1	DE 679
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 V	DE 679
AIRCRAFT INDUSTRIES, A.S.	L-200	L-200 A	EASA.A.043
AIRCRAFT INDUSTRIES, A.S.	L-200	L-200 D	EASA.A.043
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 M Turbolet	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 UVP-E	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E20	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E20 CARGO	EASA.A.026

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AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E9	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E-LW	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-LW	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 UVP - Turbolet	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-420	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37-2	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37A	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37A-2	EASA.A.445
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-250	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-300	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-301	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-302	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-400	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-400A	US A9SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-501	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-503	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-503A	US A17SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-602	US A19SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-802	US 19SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-802A	US 19SW
ALENIA AERMACCHI S.P.A.	F260	F260	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260B	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260C	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260D	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260E	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260F	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	SF260TP	EASA.A.586
ALENIA AERMACCHI S.P.A.	S205/S208	S205-18/F	EASA.A.587

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ALENIA AERMACCHI S.P.A.	S205/S208	S205-18/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-20/F	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-20/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-22/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S208	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S208A	EASA.A.587
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-30	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-31	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-31TC	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-30A	US A18CE
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-31A	US A18CE
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-31ATC	US A18CE
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164A	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B with 73"	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-15T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-20T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-34T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164C	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164D	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164D with 73" wing gap	US 1A16
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-54 "PERKOZ"	SZD-54-2 "PERKOZ"	EASA.A.574
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-100	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-100 S	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-120	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-120 B	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-160	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2100	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2100A	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2112	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2120U	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160D	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160i	EASA.IM.A.086
AMERICAN CHAMPION AIRCRAFT	Bellanca and Champion	8GCBC	US A21CE
AMERICAN CHAMPION AIRCRAFT	Bellanca and Champion	8KCAB	US A21CE
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7ECA	US A-759

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AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCAA	US A-759
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCBC (160HP)	US A-759
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCBC (180HP)	US A-759
AQUILA AVIATION GMBH	AQUILA AT01	AQUILA AT01	EASA.A.527
AQUILA AVIATION GMBH	AQUILA AT01	AQUILA AT01-100	EASA.A.527
ASI AVIATION S.A.S.	F 406	F 406	EASA.A.109
AVIAT AIRCRAFT INC	Husky A-1	A-1	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1A	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1B	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1C-180	EASA.IM.A.294
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-1S	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2A	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2B	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2C	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2S	US A8SO
BEECHCRAFT CORPORATION	58	58P	US A23CE
BEECHCRAFT CORPORATION	58	58PA	US A23CE
BEECHCRAFT CORPORATION	58	58TC	US A23CE
BEECHCRAFT CORPORATION	58	58TCA	US A23CE
BEECHCRAFT CORPORATION	60	60	US A12CE
BEECHCRAFT CORPORATION	60	A60	US A12CE
BEECHCRAFT CORPORATION	60	B60	US A12CE
BEECHCRAFT CORPORATION	390	390 (Premier I)	EASA.IM.A.073
BEECHCRAFT CORPORATION	390	390 (Premier IA)	EASA.IM.A.073
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	36	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-A33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-B33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-C33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-C33A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	A36	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	A36TC	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	B36TC	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33C	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33A	US 3A15

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BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33C	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	G33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	G36	EASA.IM.A.279
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	H35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	J35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	K35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	M35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	N35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	P35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	S35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35B	US 3A15
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	B50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	C50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50A	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50B	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50C	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50E	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50E-5990	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	E50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	F50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	G50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	H50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	J50	US 5A4
BEECHCRAFT CORPORATION	55, 56, 58, 95	58	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	56TC	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	58A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-A55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55B	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-C55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-C55A	US 3A16

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BEECHCRAFT CORPORATION	55, 56, 58, 95	A56TC	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	B95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	B95A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	D55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	D55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	D95A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	G58	EASA.IM.A.280
BEECHCRAFT CORPORATION	65, 70, 90	65	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	70	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-88	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A80-8800	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-1	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-2	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-3	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-4	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-B80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	A65	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	A65-8200	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	B90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	C90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	C90A	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	C90GT	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	C90GTi	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	E90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	H90	US 3A20
BEECHCRAFT CORPORATION	76 (Duchess)	76	US A29CE
BEECHCRAFT CORPORATION	77 (Skipper)	77	US A30CE
BEECHCRAFT CORPORATION	99 and 100 Series	99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	100	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	99A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A100	US A14CE

BEECHCRAFT CORPORATION	99 and 100 Series	A100A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A99A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	B100	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	B99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	C99	US A14CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	300	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900D	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200T	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	300LW	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A100-1	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200C	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200CGT	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200GT	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200T	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B300	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B300C	EASA.IM.A.277
BEECHCRAFT CORPORATION	F90 (King Air)	F90	US A31CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	19A	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23-19	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23-24	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23A	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A24	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B19	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B23	US A1CE

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BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	C23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	C24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	M19A	US A1CE
Bernd HAGER / Anatoli STOBBE GbR	Ruschmeyer R 90	R 90-230RG	EASA.A.539
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-20	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-21	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-26	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-27	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-8	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-9	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-20	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-21	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-26	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-27	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T-4R	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T-4S	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-1	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-2	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-3	UK BA6
CEAPR	ATL	ATL	EASA.A.374
CEAPR	ATL	ATL L	EASA.A.374
CEAPR	ATL	ATL S	EASA.A.374
CEAPR	DR 200 Series	DR 200	EASA.A.510
CEAPR	DR 200 Series	DR 250	EASA.A.551
CEAPR	DR 200 Series	DR 250-160	EASA.A.510
CEAPR	DR 200 Series	DR 250B	EASA.A.510
CEAPR	DR 200 Series	DR 250B-160	EASA.A.510
CEAPR	DR 220/221	DR 220	EASA.A.551
CEAPR	DR 220/221	DR 220 A	EASA.A.551
CEAPR	DR 220/221	DR 220 AB	EASA.A.551
CEAPR	DR 220/221	DR 220 B	EASA.A.551
CEAPR	DR 220/221	DR 221	EASA.A.551
CEAPR	DR 220/221	DR 221 B	EASA.A.551
CEAPR	DR 253 Series	DR 253	EASA.A.552
CEAPR	DR 253 Series	DR 253 B	EASA.A.552

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CEAPR	DR 300/400	DR 300/108	EASA.A.367
CEAPR	DR 300/400	DR 300/120	EASA.A.367
CEAPR	DR 300/400	DR 300/125	EASA.A.367
CEAPR	DR 300/400	DR 300/140	EASA.A.367
CEAPR	DR 300/400	DR 300/180 R	EASA.A.367
CEAPR	DR 300/400	DR 315	EASA.A.367
CEAPR	DR 300/400	DR 340	EASA.A.367
CEAPR	DR 300/400	DR 360	EASA.A.367
CEAPR	DR 300/400	DR 380	EASA.A.367
CEAPR	DR 300/400	DR 400/100	EASA.A.367
CEAPR	DR 300/400	DR 400/120	EASA.A.367
CEAPR	DR 300/400	DR 400/120 A	EASA.A.367
CEAPR	DR 300/400	DR 400/120 D	EASA.A.367
CEAPR	DR 300/400	DR 400/125	EASA.A.367
CEAPR	DR 300/400	DR 400/125 i	EASA.A.367
CEAPR	DR 300/400	DR 400/140	EASA.A.367
CEAPR	DR 300/400	DR 400/140 B	EASA.A.367
CEAPR	DR 300/400	DR 400/160	EASA.A.367
CEAPR	DR 300/400	DR 400/160 D	EASA.A.367
CEAPR	DR 300/400	DR 400/180	EASA.A.367
CEAPR	DR 300/400	DR 400/180 R	EASA.A.367
CEAPR	DR 300/400	DR 400/180 S	EASA.A.367
CEAPR	DR 300/400	DR 400/2+2	EASA.A.367
CEAPR	DR 300/400	DR 400/200 R	EASA.A.367
CEAPR	DR 300/400	DR 400/500	EASA.A.367
CEAPR	DR 300/400	DR 400/NGL	EASA.A.367
CEAPR	DR 300/400	DR 400/RP	EASA.A.367
CEAPR	HR 100/R 1000 Series	HR 100-200	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-200 B	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-200 D	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-210	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-210D	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-250 TR	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-285 C	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-285 TIARA	EASA.A.368
CEAPR	HR 100/R 1000 Series	R 1180 T	EASA.A.368
CEAPR	HR 100/R 1000 Series	R 1180 TD	EASA.A.368
CEAPR	R 3000	R 3000/100	EASA.A.372

CEAPR	R 3000	R 3000/120	EASA.A.372
CEAPR	R 3000	R 3000/120 D	EASA.A.372
CEAPR	R 3000	R 3000/140	EASA.A.372
CEAPR	R 3000	R 3000/160	EASA.A.372
CEAPR	R 3000	R 3000/160 S	EASA.A.372
CEAPR	R 3000	R 3000/180	EASA.A.372
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	152	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150A	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150B	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150C	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150D	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150E	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150F	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150G	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150H	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150J	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150K	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150L	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150M	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150K	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150L	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150M	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A152	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172A	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172B	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172C	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172D	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172E	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172F	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172G	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172H	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172I	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172K	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172L	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172M	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172N	US 3A12

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CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172P	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172Q	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172R	EASA.IM.A.051
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172S	EASA.IM.A.051
CESSNA AIRCRAFT COMPANY	Cessna 172RG	172RG	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175A	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175B	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175C	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	P172D	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172E	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172F	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172G	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172H	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172J	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172K	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177A	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177B	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 RG Series	177RG	US A20CE
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180A	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180B	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180C	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180D	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180E	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180F	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180G	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180H	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180J	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180K	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182A	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182B	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182C	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182D	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182E	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182F	US 3A13

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CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182G	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182H	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182J	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182K	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182L	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182M	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182N	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182P	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182Q	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182R	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182S	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182T	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	R182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	T182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	T182T	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	TR182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185A	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185B	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185C	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185D	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185E	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	A185E	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	A185F	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188A	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188B	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188A	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188B	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	T188C	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	206H	EASA.IM.A.053
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206D	US A4CE

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CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	T206H	EASA.IM.A.053
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206F	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206G	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206F	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206G	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	207	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	207A	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	T207	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	T207A	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 208 Series	208	EASA.IM.A.226
CESSNA AIRCRAFT COMPANY	Cessna 208 Series	208B	EASA.IM.A.226
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210-5 (205)	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210-5A (205A)	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210A	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210B	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210C	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210D	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210E	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210F	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210G	US 3A21

CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210H	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210J	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210K	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210L	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210M	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	P210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	P210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210F	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210G	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210H	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210J	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210K	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210L	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210M	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310A	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310B	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310C	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310D	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310E	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310F	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310G	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310H	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310I	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310J	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310J-1	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310K	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310L	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310N	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310P	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310Q	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310R	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	E310H	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	E310J	US 3A10

CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310P	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310Q	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310R	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	335	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	340	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320-1	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320A	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320B	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320C	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320D	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320E	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320F	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	340A	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 321	321	US 3A11
CESSNA AIRCRAFT COMPANY	Cessna 336	336	US A2CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337A	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337C	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337D	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337E	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337F	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337G	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	M337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	P337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337C	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337D	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337E	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337F	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337G	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337H-SP	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401B	US A7CE

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CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402B	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402C	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	411	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	411A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	414	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	414A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421B	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421C	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	425	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 404/406	404	US A25CE
CESSNA AIRCRAFT COMPANY	Cessna 441	441	US A28CE
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150F	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150G	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150H	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150J	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150K	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F152	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150K	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA152	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FRA150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FRA150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172D	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172E	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172F	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172G	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172H	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172K	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172L	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172M	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172N	US A4EU

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CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172P	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	FP172D	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F177RG	F177RG	US A26EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	F182P	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	F182Q	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	FR182	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337E	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337F	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337G	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337H	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337E	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337F	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337GP	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337HP	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172E	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172F	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172G	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172H	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172J	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172K	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna T303	T303	US A34CE
CESSNA AIRCRAFT COMPANY	Corvalis	LC40-550FG	EASA.IM.A.516
CESSNA AIRCRAFT COMPANY	Corvalis	LC41-550FG	EASA.IM.A.516
CESSNA AIRCRAFT COMPANY	Corvalis	LC42-550FG	EASA.IM.A.516
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR20	EASA.IM.A.007
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR22	EASA.IM.A.007
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR22T	EASA.IM.A.007
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112B	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112TC	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112TCA	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114A	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114B	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114TC	US A12SO
COSTRUZIONI AERO. TECNAM	P2002	P2002-JF	EASA.A.006
COSTRUZIONI AERO. TECNAM	P2002	P2002-JR	EASA.A.006
COSTRUZIONI AERO. TECNAM	P2006T	P2006T	EASA.A.185

COSTRUZIONI AERO. TECNAM	P2008 JC	P2008 JC	EASA.A.583
COSTRUZIONI AERO. TECNAM	P2010	P2010	EASA.A.676
COSTRUZIONI AERO. TECNAM	Tecnam P92	P92-J	EASA.A.412
COSTRUZIONI AERO. TECNAM	Tecnam P92	P92-JS	EASA.A.412
CZECH SPORT AIRCRAFT A.S.	PS-28 Cruiser	PS-28 Cruiser	EASA.A.546
DIAMOND AIRCRAFT IND. INC	DA20	DA20-A1	EASA.IM.A.223
DIAMOND AIRCRAFT IND. INC	DA20	DA20-C1	EASA.IM.A.223
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 D	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 F	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 NG	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 M	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 M-NG	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 NG	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42 M (Restricted)	DA 42 M-NG (Restricted)	EASA.A.513
DIAMOND AIRCRAFT INDUSTRIES	DA 42 M (Restricted)	DA 42 M (Restricted)	EASA.A.513
DIAMOND AIRCRAFT INDUSTRIES	DV 20	DV 20	EASA.A.439
DYNAC AEROSPACE CORPORATION	Aero Commander	Aero Commander 100	US 1A21
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 32	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 32A	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 35	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 35A	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 80	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104M Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MA Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MF Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MN Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-106 BT TURBO KRUK Series	PZL-106 BT-601 TURBO KRUK	EASA.A.444
EADS PZL WARSZAWA-OKECIE S.A.	PZL-106 BT TURBO KRUK Series	PZL-106 BTU-34 TURBO KRUK	EASA.A.444
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-110 KOLIBER	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 150	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 150A	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 160A	EASA.A.091
ECLIPSE AEROSPACE INCORPORATED	EA500	EA500	EASA.IM.A.171
E.I.S. AIRCRAFT GMBH	RS 180	RS 180	DE 1014
EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110K1	BR EA-7202
EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110P1	BR EA-7202

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EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110P2	BR EA-7202
EMBRAER S.A.	EMB-121	EMB-121A	BR EA-7905
EMBRAER S.A.	EMB-121	EMB-121A1	BR EA-7905
EVEKTOR, SPOL. S R.O.	EV-97 VLA	EV-97 VLA	EASA.A.029
EVEKTOR, SPOL. S R.O.	SportStar RTC	SportStar RTC	EASA.A.592
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/200	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/L	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/LC	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/LT	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/S	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/SC	EASA.A.362
FLIGHT - DESIGN - GmbH FLUGSPO	CT	CTLS-ELA	EASA.A.537
FOURNIER, RENE	RF 47	RF 47	FR TCDS 187
FOURNIER, RENE	RF.6.B.	RF.6.B. 100	FR TCDS 149
FOURNIER, RENE	RF.6.B.	RF.6.B. 120	FR TCDS 149
FOURNIER, RENE	RF.6.B.	RF.6.B. 90	FR TCDS 149
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-160	JP 20-10
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-180	JP 22-6
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-180AO	JP 22-6
GA8 AIRVAN PTY. LTD.	GA8-Series	GA8	EASA.IM.A.042
GA8 AIRVAN PTY. LTD.	GA8-Series	GA8-TC 320	EASA.IM.A.042
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/15	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/15-1	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A1	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A2	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A3	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A4	EASA.A.591
GROB AIRCRAFT AG	G 120	G 120A	EASA.A.075
GROB AIRCRAFT AG	G 120	G 120A-I	EASA.A.075
GROB AIRCRAFT AG	G 120TP	G 120TP-A	EASA.A.565
GROB AIRCRAFT AG	G520 EGRETT	G520 EGRETT	DE 2066
GROB AIRCRAFT AG	G520 EGRETT	G520T	DE 2066

GROB AIRCRAFT AG	Grob G 115	G 115	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115A	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115B	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115C	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115C2	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115D	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115D2	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115E	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115EG	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115TA	EASA.A.364
INSTYTUT LOTNICTWA	I-23	I-23 "Manager"	EASA.A.200
INTERCEPTOR AVIATION INC.	200	200D	US 3A18
ISSOIRE AVIATION	APM 20 and APM 30 Series	APM 20	EASA.A.306
ISSOIRE AVIATION	APM 20 and APM 30 Series	APM 30	EASA.A.306
ISSOIRE AVIATION	APM40	APM40	EASA.A.567
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25	AR AV-0004/US 2A8
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25-235	AR AV-0004/US 2A8
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25-260	AR AV-0004/US 2A8
LIBERTY AEROSPACE INC.	Liberty XL-2	XL-2	EASA.IM.A.343
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA226-TC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-AC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-BC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-PC	US A8SW
M7 AEROSPACE L.L.C.	SA227 (A18SW)	SA227-CC	US A18SW
M7 AEROSPACE L.L.C.	SA227 (A18SW)	SA227-DC	US A18SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-T	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-T(B)	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA227-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA227-TT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA26-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA26-T	US A5SW
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TC	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCN	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCNS	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCS	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 710 RG	EASA.A.079

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MAULE AEROSPACE TECHNOLOGY	Maule	Bee Dee M-4	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-180V	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-210	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-210C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220S	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4S	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4T	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-180C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-210C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-235C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-6-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-7-235B	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MT-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180A	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180B	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-160	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-180	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-180A	EASA.IM.A.018
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-20	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-25	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-26	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-30	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-35	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-36	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-10 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-20 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-25 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-26 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-26A (USA)	US A10SW

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MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-36A (USA)	US A10SW
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-40 (USA)	US A10SW
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-60 (USA)	US A10SW
MOONEY AVIATION COMPANY, INC.	M20	M20	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20A	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20B	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20C	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20D	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20E	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20F	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20G	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20J	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20K	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20L	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20M	EASA.IM.A.266
MOONEY AVIATION COMPANY, INC.	M20	M20R	EASA.IM.A.266
MOONEY AVIATION COMPANY, INC.	M20	M20S	US 2A3
MOONEY AVIATION COMPANY, INC.	M22	M22	US A6SW
NOMAD TC PTY LTD	N22	N22	AU 73-1
NOMAD TC PTY LTD	N22	N22B	AU 73-1
NOMAD TC PTY LTD	N22	N22C	AU 73-1
NOMAD TC PTY LTD	N22	N22S	AU 73-1
NOMAD TC PTY LTD	N24	N24	AU 73-1
NOMAD TC PTY LTD	N24	N24A	AU 73-1
OMA SUD SKY TECHNOLOGIES SPA	SKYCAR	SKYCAR	EASA.A.563
PACIFIC AEROSPACE LTD.	PAC 750XL	750XL	EASA.IM.A.081
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 B	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 C	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 DL3	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 DP1	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 S	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.180	Avanti	EASA.A.059
PIAGGIO AERO INDUSTRIES S.P.A.	P.180	Avanti II	EASA.A.059
PILATUS AIRCRAFT LTD.	PC-12	PC-12	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/45	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/47	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/47E	EASA.A.089

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PILATUS AIRCRAFT LTD.	PC-6	PC-6	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A2-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B2-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B2-H4	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/C1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/C-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6-H2	CH F 56-10
PIPER AIRCRAFT, INC.	PA-23	PA-23-235	US 1A10
PIPER AIRCRAFT, INC.	PA-23	PA-23-250	US 1A10
PIPER AIRCRAFT, INC.	PA-23	PA-E23-250	US 1A10
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-250	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-260	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-400	US 1A15
PIPER AIRCRAFT, INC.	PA-28	PA-28-140 (Cherokee Cruiser)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-150 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-151 (Cherokee Warrior)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-160 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161 (Warrior II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161 (Warrior III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-180 (Archer)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-180 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-181 (Archer II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-181 (Archer III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-201T (Turbo Dakota)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-235 (Cher.Pathfinder)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-236 (Dakota)	US 2A13

PIPER AIRCRAFT, INC.	PA-28	PA-28R-180 (Arrow)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-200 (Arrow)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-200 (Arrow II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-201 (Arrow III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-201T (Turbo Arrow III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28RT-201 (Arrow IV)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28RT-201T (Turbo Arrow IV)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28S-160 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28S-180 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-30	US A1EA
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-39	US A1EA
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-40	US A1EA
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-300	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-325	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-350 (Chieftain)	US A20SO
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31P-350 (Mojave)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31P (Pressurized Navajo)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T1 (Chey. I/Cheyenne IA)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T2 (Cheyenne IIXL)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T3	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T (Cheyenne/Cheyenne II)	US A8EA
PIPER AIRCRAFT, INC.	PA-32	PA-32-260 (Cherokee Six 260)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-300 (Cherokee Six 300)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301FT (Piper 6X)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32-301 (Saratoga)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301T (Saratoga II TC)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32-301T (Turbo Saratoga)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301XTC (Piper 6XT)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32R-300 (Lance)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301 (Saratoga II HP)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301 (Saratoga SP)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301T (Saratoga II TC)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301T (Turbo SaratogaSP)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32RT-300 (Lance II)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32RT-300T (Turbo Lance II)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32S-300 (Cher.Six Seaplane)	US A3SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-200 (Seneca)	US A7SO

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PIPER AIRCRAFT, INC.	PA-34	PA-34-200T (Seneca II)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca III)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca IV)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca V)	EASA.IM.A.090
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-285 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-300 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-375 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-285 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-300 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-375 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-38	PA-38-112	US A18SO
PIPER AIRCRAFT, INC.	PA-42	PA-42-1000 (Cheyenne 400LS)	US A23SO
PIPER AIRCRAFT, INC.	PA-42	PA-42-720 (Cheyenne IIIA)	US A23SO
PIPER AIRCRAFT, INC.	PA-42-720R	PA-42-720R	US A32SO
PIPER AIRCRAFT, INC.	PA-42	PA-42 (Cheyenne III)	US A23SO
PIPER AIRCRAFT, INC.	PA-44	PA-44-180 (Seminole)	EASA.IM.A.232
PIPER AIRCRAFT, INC.	PA-44	PA-44-180T (Turbo Seminole)	EASA.IM.A.232
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-310P	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-350P (Mirage)	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-500TP (Meridian)	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46R-350T (Matrix)	EASA.IM.A.077
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18A	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18AS	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18B	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18BS	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M26	PZL M26 01	EASA.A.057
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 00	EASA.A.058
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 02	EASA.A.058
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 05	EASA.A.058
REVO, INC.	Lake Aircraft	LA-4-200	US 1A13
REVO, INC.	Lake Aircraft	LA-4A	US 1A13
REVO, INC.	Lake Aircraft	LA-4P	US 1A13
REVO, INC.	Lake Aircraft	Lake 250	US 1A13
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 A-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 A-1[R]	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 B-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D	EASA.A.360

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RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-2	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-6	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Dornier 128-6	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-100	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-101	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-200	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-201	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-202	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-212	EASA.A.359
S.C. CONSTRUCTII AERONAUTICE	IAR-46 / -46S	IAR-46	EASA.A.113
S.C. CONSTRUCTII AERONAUTICE	IAR-46 / -46S	IAR-46S	EASA.A.113
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 A	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 A1	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 B	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 C	EASA.A.579
SEASTAR CORP.	TSC-1	TSC-1A	US A15EA
SEASTAR CORP.	TSC-1	TSC-1A1	US A15EA
SEASTAR CORP.	TSC-1	TSC-1A2	US A15EA
SHORT BROTHERS PLC	SC7 "Skyvan"	SC7 Series 3A	UK AAN9877
SHORT BROTHERS PLC	SD3	SD3-30	UK BA 11
SHORT BROTHERS PLC	SD3	SD3-60	UK BA 11
SHORT BROTHERS PLC	SD3	SD3-60 Sherpa	UK BA 11
SHORT BROTHERS PLC	SD3	SD3 Sherpa	UK BA 11
SKYFOX AVIATION	CA-25	CA25	AU 154-2
SKYFOX AVIATION	CA-25	CA25N	AU 154-2
SLINGSBY ADVANCED COMPOSITES	T67	T67A	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67B Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67C Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M200 Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M260 Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M260-T3A Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M-MKII Firefly	EASA.A.390
SOCATA	GA7	GA7	FR TCDS 190
SOCATA	MS 880 and Rallye 100 Series	MS 880 B	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 880 B-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 881	EASA.A.377

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SOCATA	MS 880 and Rallye 100 Series	MS 883	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 884	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 885	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 886	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 887	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 S	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 S-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 ST-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 110 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 ST-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 SV	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 SVS	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 T	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 T-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 T	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 T-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 TS	EASA.A.377
SOCATA	MS 890 and Rallye 235 Series	MS 890 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 890 B	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 A.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 B.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 E.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 E-D.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 B	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 E-D	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 C	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 C	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 E-D	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 F	EASA.A.379
SOCATA	TBM700	TBM700 A	EASA.A.010

SOCATA	TBM700	TBM700 B	EASA.A.010
SOCATA	TBM700	TBM700 C1	EASA.A.010
SOCATA	TBM700	TBM700 C2	EASA.A.010
SOCATA	TBM700	TBM700 N	EASA.A.010
SOCATA	TB Series	TB 10	EASA.A.378
SOCATA	TB Series	TB 20	EASA.A.378
SOCATA	TB Series	TB 200	EASA.A.378
SOCATA	TB Series	TB 21	EASA.A.378
SOCATA	TB Series	TB 9	EASA.A.378
SST FLUGTECHNIK GmbH	EA 400	EA 400	EASA.A.011
SST FLUGTECHNIK GmbH	EA 400	EA 400-500	EASA.A.011
STEMME GMBH AND CO KG	ASP	ASP S15-1	EASA.A.612
SYMPHONY AIRCRAFT INDUSTRIES	OMF-100	OMF-100-160	EASA.IM.A.031
TAYLORCRAFT AVIATION LLC	F19, F21, F22	19	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F19	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21A	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21B	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22A	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22B	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22C	US 1A9
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	600 S-2D	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S-2R	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-R1340	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-R3S	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-T11	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G1	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G10	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G5	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G6	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-H80	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2RHG-T34	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2RHG-T65	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-R1820	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T15	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T34	EASA.IM.A.040

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THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T45	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T65	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T660	EASA.IM.A.040
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1A	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1B	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1C	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5	US A16EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5A	US A16EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5B	US A16EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AG-5B	US A16EA
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-A	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-B	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-S	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-U	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	520	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560-A	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560-E	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	560-F	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680E	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680F	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680FL	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680FL(P)	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680T	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680V	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680W	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	681	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	685	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690A	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690B	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690C	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690D	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695A	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695B	US 2A4

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TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	720	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 700 Series	700	US A12SW
VIKING AIR LIMITED	DHC-2	DHC-2 Mk 111 (Turbo Beaver	CA A-22
VIKING AIR LIMITED	DHC-6	DHC-6 Series 1	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 100	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 110	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 200	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 210	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 300	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 310	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 320	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 400	EASA.IM.A.575
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR 200"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR B"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR B 1155"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64 "OSCAR"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66B "OSCAR 100"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66B "OSCAR 150"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66C "CHARLIE"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.0	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.1	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.100L	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.150L	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.CL	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P.68	AP68TP-300 "Spartacus"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	AP68TP-600 "Viator"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 B "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 C	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 C-TC	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Observer"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Observer 2"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 R "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68TC "Observer"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR SF600	SF600	EASA.A.608
VULCANAIR S.P.A.	VULCANAIR SF600	SF600A	EASA.A.608
WACO CLASSIC AIRCRAFT CORP.	WACO 2T	2T-1A-1	US A18EA

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WACO CLASSIC AIRCRAFT CORP.	WACO 2T	2T-1A-2	US A18EA
WACO CLASSIC AIRCRAFT CORP.	YMF Series	YMF F5	EASA.IM.A.055
WACO CLASSIC AIRCRAFT CORP.	YMF Series	YMF F5C	EASA.IM.A.055
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106A	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106A m.B	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106AR	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106AS "Kruk"	PZL-106AS	EASA.SAS.A.059
WITHOUT TC HOLDER - ORPHANED	PZL-106B "Kruk"	PZL-106BR	EASA.SAS.A.060
WITHOUT TC HOLDER - ORPHANED	PZL-106B "Kruk"	PZL-106BS	EASA.SAS.A.060
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 00	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 01	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03 (1999 kg)	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03 (E20.100.00wing)	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-150	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-150D	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-160	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-160D	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-180	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B-160	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B-160l	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	FLS Sprint	Club Sprint	EASA.SAS.A.074
WITHOUT TC HOLDER - ORPHANED	FLS Sprint	Sprint 160	EASA.SAS.A.074
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 100	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 200	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 301	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 1	EASA.SAS.A.082
WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 2	EASA.SAS.A.082
WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 3	EASA.SAS.A.082
WITHOUT TC HOLDER - ORPHANED	Decourt DMS 884-1	DMS 884-1	EASA.SAS.A.090
WITHOUT TC HOLDER - ORPHANED	CERVA CE 43	CE 43	EASA.SAS.A.047
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 A	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 B "Super IV Sancy"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 "SUPER IV"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 41 "Baladou"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 4/21	EASA.SAS.A.048

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WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 4/21/250 "Super 4/21"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	General Avia F20	F.20 Pegaso	EASA.SAS.A.052
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22A	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22B	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22C	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22R	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	Sukhoi Su-29	Su-29	EASA.SAS.A.093
WITHOUT TC HOLDER - ORPHANED	Sukhoi Su-31	Su-31	EASA.SAS.A.094
WITHOUT TC HOLDER - ORPHANED	Yakovlev YAK-18T	YAK-18T	EASA.SAS.A.095
WITHOUT TC HOLDER - ORPHANED	SOCATA ST10	ST10 "Diplomate"	EASA.SAS.A.049
WITHOUT TC HOLDER - ORPHANED	Calif A-21	Calif A-21	EASA.SAS.A.118
WITHOUT TC HOLDER - ORPHANED	Calif A-21	Calif A-21S	EASA.SAS.A.118
WITHOUT TC HOLDER - ORPHANED	Reims-Cessna FTB337G	FTB337G	EASA.SAS.A.115
WITHOUT TC HOLDER - ORPHANED	Reims-Cessna FTB337G	FTB337GA	EASA.SAS.A.115
WITHOUT TC HOLDER - ORPHANED	Rallye 235 CA	Rallye 235 CA	EASA.SAS.A.116
WITHOUT TC HOLDER - ORPHANED	Rallye 235 CA	Rallye 235 CA-M	EASA.SAS.A.116
XTREMEAIR GMBH	XA42	XA41	EASA.A.507
XTREMEAIR GMBH	XA42	XA42	EASA.A.507
ZAKLADY LOTNICZE	EM-11 ORKA	EM-11C ORKA	EASA.A.115
ZENAIR LIMITED	Zenair	CH 2000	CA A-185
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 126	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 126 T	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 B	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 MS	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 T	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 AFS	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 AFS-V	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 F	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 L	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 726	EASA.A.353

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ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 726 K	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 37 T Series	Z 137 T	EASA.A.443
ZLIN AIRCRAFT A.S.	ZLIN Z 37 T Series	Z 37 T	EASA.A.443
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 142	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 142 C	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 242 L	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 42 M	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 42 MU	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 143 L	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 143 LSi	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 43	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 L	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LA	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LS	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LX	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 M	EASA.A.108

For the European Aviation Safety Agency

Date of Issue: 07 March 2017






Dominique ROLAND
 Head of General Aviation and
 Remotely Piloted Aircraft Systems (RPAS)

Master Data List (MDL)

Document No. **MDL-1259**

Issue **9**

Title: **Master Data List (MDL) for:
GPS navigation system upgrade
Multi Model List**

	Name	Signature	Date
Compiled by	J. LOMAS		10/10/2017
Checked	M. SHIPP		10/10/2017
Design Released	M. SHIPP		10/10/2017

**INTELLIGENT
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Registered in England No. 07842470, VAT GB 190 2275 19
Gama Aviation (Engineering) Ltd, Business Aviation Centre, Farnborough Airport
Farnborough, Hampshire, GU14 6XA, United Kingdom

AMENDMENT RECORD

ISSUE	REASON FOR ISSUE	CLASSIFICATION OF CHANGE	CLASSIFICATION REFERENCE	APPROVAL REFERENCE (CoD & Agency Ref.)	DATE ISSUED
1	Initial Issue.	MAJOR	CC-1259	CS-1259 Iss 1	25/11/2011
2	Up-issue to include comments as per DQ-11-120.	As above	As above	CS-1259 Iss 2 STC 10037701 Rev 0	12/12/2011
3	Up-issue to include additional aircraft on MML as per DQ-14-263.	As above	As above	CS-1259 Iss 3	06/03/2015
4	Up-issue to include EASA comments on documents as per DQ-15-076.	MAJOR	As above	CS-1259 Iss 4 STC 10037701 Rev 1	20/05/2015
5	Up-issue to include EASA comments on documents as per DQ-15-140.	As above	As above	CS-1259 Iss 5	17/08/2015
6	Up-issue to include EASA comments on documents as per DQ-15-153.	As above	As above	CS-1259 Iss 6	25/08/2015
7	Up-issue to amend annunciator requirements as per DQ-16-022.	MAJOR	As above	CS-1259 Iss 6 STC 10037701 Rev 2	02/03/2016
8	Up-issue to include updates and improvements as per DQ-17-005.	MAJOR	CC-1259-02	CS-1259 Iss 7 STC 10037701 Rev 3	06/02/2017
9	Up-issue to include Garmin G5 as an approved interface reference DQ-17-069.	MINOR Minor / Minor	CC-1259-03	CS-1259 Iss 8	See title page

1 Document List(Codes: **P** = Production Organization, **I** = Installer/Owner/Operator, **INT** = Internal Only)

DISTRIBUTION	SECURITY CLASSIFICATION	DOCUMENT TITLE	BASE CHANGE NUMBER	TYPE IDENTIFIER	TYPE SEQUENTIAL	DOCUMENT ISSUE	INCORPORATING MDL ISSUE
GAEL DOCUMENTS							
I	NPM	Aircraft Flight Manual Supplement for: GPS navigation system upgrade	AFMS-1259-01	AFMS	01	8	8
INT	NPM	Classification Checklist for: GPS navigation system upgrade	CC-1259	CC	01	3	4
INT	NPM	Classification Checklist for: GPS navigation system upgrade	CC-1259-02	CC	02	1	8
INT	NPM	Classification Checklist for: GPS navigation system upgrade	CC-1259-03	CC	03	1	9
INT	NPM	Certification Plan for: GPS navigation system upgrade	CP-1259	CP	01	6	7
INT	NPM	Compliance Record for: Project Title	CR-1259	CR	01	6	7
I	NPM	Change Statement for: GPS navigation system upgrade	CS-1259	CS	01	8	9
I	NPM	Equipment Schedule for: GPS navigation system upgrade	ES-1259	ES	01	3	3
INT	NPM	Flight Manual Supplement Control Sheet: GPS navigation system upgrade	FCS-1259	FCS	01	7	8
I	NPM	Equipment Configuration Settings for: GPS navigation system upgrade	ECS-1259	ECS	01	2	8
I	NPM	Instructions for Continued Airworthiness for: GPS navigation system upgrade	ICA-1259	ICA	01	4	7
I	NPM	Installation / Post Installation Procedures for: GPS navigation system upgrade	IPI-1259	IPI	01	8	9
INT	NPM	Ground Test Results for TI (G-BNUO)	IPI-1259	IPI	01	2	5
I	NPM	Multi Model List: GPS navigation system upgrade	MML-1259	MML	01	6	8
INT	NPM	Safety Assessment for: GPS navigation system upgrade	SA-1259	SA	01	4	5
DESIGN UPDATES							
-	-	None	-	-	-	-	-
FLIGHT TEST DOCUMENTS							
INT	NPM	Flight Test Plan for: GPS navigation system upgrade	FTP-1259			1	1

INT	NPM	Flight Test Report for: GPS navigation system upgrade	FTR-1259	2	2
REFERENCE DOCUMENTS – (Not controlled by this MDL)					
I	NPM	EMC / RFI Checklist	EMC-GENERIC	3	3
I	NPM	Electrical Load Analysis	ELA-CAT-GENERIC	1	3
INT	NPM	GNS 430W Pilots Guide and Reference	190-00356-00	J	3
INT	NPM	GNS 530W Pilots Guide and Reference	190-00357-00	J	3
INT	NPM	400W / 500W Functional Hazard Assessment / System safety Assessment	005-00221-07	4	1
INT	NPM	EASA Supplemental Type Certificate: GNS 430W / 530W navigation system SBAS upgrade and certification of LPV capability	STC 10037701	3	8

2 Drawing List




(Codes: **P** = Production Organization, **I** = Installer/Owner/Operator, **INT** = Internal Only)

DISTRIBUTION	SECURITY CLASSIFICATION	DRAWING TITLE	DRAWING NUMBER	DRAWING ISSUE	INCORPORATING MDL ISSUE
I	NPM	MD41-() ACU CONNECTION TO GNS430W / 530W	1259-11	1	1

Change Statement (CS)

Change Statement (CS)			
Project title	Garmin GPS system operational upgrade to add LPV capability		
Aircraft model/ type	Multiple Model List (MML)	TCDS	Refer to MML
Original cert basis	Refer to MML	Change cert basis	CS 23-3
Classification	Major		

Documents affected (tick ✓ if yes, cross X if no) * some aircraft					
Weight and balance	X	Maintenance manual	✓	Flight manual	✓
Electrical load analysis	X	Wiring diagram	✓*	Log book	✓
Compass swing	✓	SRM	X	NAA radio license	X

	Name	Signature	Date
Compiled by	J. LOMAS		10/10/2017
CVE Cabins/ interiors	N/A <i>llws</i>	—	—
CVE Mechanical	P. J. VINER		10 SEP 2017
CVE Systems	M. SHIPP		10/10/2017
CVE Flight operations	N/A <i>llws</i>	—	—

Certificate of Design

I hereby certify that except for the change listed above the design of the aircraft as designated on this sheet has not been changed in any way. I declare that compliance has been shown with the applicable type certificate basis and the relevant environmental protection requirements as per 21.A.97(a)3. I further certify that the aircraft and all systems affected as part of this modification comply with European Union Commission Regulation No 748/2012 Part 21 Subpart J.

The technical content of this document is approved under the authority of DOA number EASA.21J.174

Approved by:	M. SHIPP		10/10/2017
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Limitations, conditions, exemptions	Controlled document stamp
None	<p>Reg: LN-DAY MSN: 1608</p>

1. Reason for change

Approval of an existing Garmin GPS system to add LPV capability.

2. Description of change

This major change (STC) is raised for to allow existing Garmin GNS430W/530W GPS navigation systems to be approved for LPV operations approval on a range of aircraft.

The STC also approves exchange of an existing GNS430/530 for one of the above WAAS variants but excludes adding additional capabilities such as TAWS. Changes introducing TAWS require additional certification and aircraft installation changes beyond the scope of this STC.

Where an existing GNS530-TAWS includes a certified TAWS-B capability, this STC includes data to allow the TAWS-B function to remain active when the unit is upgraded to a GNS530W-TAWS.

Where an aircraft uses vertical glideslope deviation from an existing GNS unit to an external TAWS-A system for GPWS Mode 5 (below glideslope), this STC allows continued use of this function and in addition, will allow vertical GPS deviation during an LPV approach to be provided to the TAWS-A.

The upgrade approves replacement of an existing Garmin GA56, Garmin 1027 or a Honeywell/Bendix King KA92 GPS antenna with a Garmin GA35 GPS WAAS antenna in the same airframe location (provided that an existing satisfactory structural doubler is installed in the case of pressurized aircraft) and replacing the associated antenna co-axial feeder with one of an appropriate specification where required.

The aircraft types included on this STC are in accordance with a Gama Aviation (Engineering) Ltd. (GAEL) Multi Model List (MML). The aircraft types on the MML are all EASA TCDS, adopted EASA TCDS or EASA 'Orphaned without TC' types, CS23, single pilot operated and with simple electrical bus-bar systems.

The approval of LPV capability is for an existing Garmin GPS unit of the following versions:

- (i) GNS530W, GNS530AW, GNS530W-TAWS, GNS530AW-TAWS
- (ii) GNS430W, GNS430AW

Hereafter, the units will be referred to as the GNS-W unit.

The STC will approve the operational use of the above units for the following navigation performance requirements:

- (a) RNAV 5 (BRNAV) in accordance with EASA AMC20-4
- (b) PRNAV operations in accordance with JAA TGL-10
- (c) GPS non-precision approach in accordance with AMC20-27 including Baro-VNav approaches using geometric altitude
- (d) LPV approaches in accordance with AMC20-28.

Presentation of GPS system status is via existing annunciation on the GNS-W unit unless this falls outside the 'Normal' or 'Primary Maximum' field of view, in which case a MidContinent Instruments MD41 GPS Annunciation Unit is installed as part of this change. Alternatively, annunciators displayed on an appropriate EFIS system are acceptable. Refer to the STC installation instructions for specific guidance. OEM service bulletin upgrades may be required to the EFIS systems to permit LPV annunciation and approval of these upgrades are outside the scope of this STC.

The minimum annunciation displayed to the pilot within the specified field of view is as follows:

GPS or Nav source to CDI/HSI.

GPS Loss of Integrity

GPS in Approach mode

GPS in Terminal mode (TERM)

GPS Message (MSG) and GPS Waypoint (WPT)

Note that apart from the changes mentioned above, i.e. the GNS-W unit, replacing an equivalent non WAAS unit, the annunciator and the antenna there are no physical changes introduced by this STC.

A flight manual supplement is required to release the aircraft to service in accordance with this change.

It is a prerequisite of this STC that:

- (1) A second VHF navigation or certified GPS system is installed, and must be displayed on a CDI within the pilot's primary field of view.
- (2) For aircraft operating under EASA OPS Part CAT (EU965-2012), a second VHF Comm is installed. National regulations may in some cases also require a second VHF Comm for *any* aircraft to access controlled airspace – see AFM supplement.

Note: It is not required that the second Comm and Nav/GPS system be a GNS-W.

- (3) The aircraft must be equipped with an operational DME and Transponder.
- (4) The aircraft meets the requirements of Electrical Power Supplies for Aircraft Radio Systems in accordance with UK CAA CAP747 GR-18 (No single likely component failure e.g. relay, contactor, switch, busbar, earth point etc. shall cause the loss of all radio equipment).

Note: this is a certification requirement for all aircraft registrations, not just UK CAA. Where changes to the electrical power distribution system are required for compliance with GR 18, the changes are subject to independent approval beyond the scope of this STC.

- (5) The aircraft is compliant with the requirement of providing 30 minutes of electrical power to those loads that are essential to continued safe flight and landing in accordance with UK CAA CAP747 GR-4/6. This is a requirement for all aircraft.
- (6) Further pre-requisites of the STC with respect to installed equipment, its location and associated aircraft power supplies are stated in the installation/post installation procedures (IPI).
- (7) This change is approved for single pilot operation only.
- (8) The aircraft type must be listed on multi model list (MML-1259)

The operator/ pilot must obtain the required approvals for operational use of the installed equipment.

3. Drawings and reports

Details of GAEL and third party drawings/reports are provided in the Master Documents List MDL-1259

4. Equipment installed

Refer to ES-1259 for equipment to be installed as required.

5. Effects on other systems

None

6. Aircraft power supplies

The electrical power distribution to the avionic bus must be inspected for compliance to UK CAA CAP747 GR-18 (for all EU aircraft - not just UK registered). See pre-requisite requirement (4) above.

7. Circuit protection

Circuit protection device(s) being re-used are to be checked for satisfactory condition and the specified rating (ref. GAEL drawing 1259-11).

Circuit protection device(s) to be identified by the system(s) being protected.

8. Electrical load analysis (ELA)

The installer must ensure that the aircraft remains compliant with the requirement of providing 30 minutes of electrical power to those loads that are essential to continued safe flight and landing, i.e. battery duration function in accordance with UK CAA CAP747 GR-4/6 as appropriate. This may be determined by calculation and/or by carrying out a practical clamp ammeter test in accordance with GAEL document ELA-CAT-GENERIC. See pre-requisite requirement (5) above.

9. Cooling requirements

Not affected

10. Lighting requirements

Cockpit equipment to be checked under representative lighting conditions to ensure annunciator compatibility with existing systems and controls when an additional annunciator is required. Refer to the IPI document detailed on the master documents list (MDL) for post-installation testing of lighting systems.

11. Structural assessment

This change has been assessed in accordance with the GAEL procedure DP 02 and found to be as follows.

11.1 Category 1 structural changes requiring visual inspection only

By visual inspection the primary units are interchangeable and the additional annunciator, if required, at 0.5lbs or less is considered negligible.

11.2 Category 2 structural changes requiring further substantiation

Not Applicable as no new units are installed and antenna changes are limited to an existing footprint and structural doubler.

Consult with the design office if there is any doubt regarding the structural integrity of where/how the installed item(s) of equipment are to be installed.

12. Weight and balance

The design office has verified that this change is acceptable for the effect on weight and balance based on a review of design data, change in weight is <1lb.

13. Interior/ trim

Not applicable to this change.

14. Labels/placards

There are no new labelling requirements for this change unless an additional circuit breaker is installed for the MD41 annunciator. In this case, a scratch-proof self-adhesive label may be used or the appropriate panel may be engraved, in each case using the same font and size as existing.

15. Applicability

With the prior approval of GAEL, this change is applicable on a series basis for aircraft type(s) with

- (i) The configuration defined in the installation/ post installation procedures and
- (ii) As specified on the GAEL Multi Model List (MML) and/or this change statement.

If the installer intends using this change on additional aircraft, an application must be made to GAEL so that continued airworthiness can be controlled.

It is the installer's responsibility to ensure that the change does not have any adverse interaction with previous changes to the aircraft. Any required deviation from the content of this change should be brought to the attention of the approved design organisation for approval.

16. Continued airworthiness

Continued airworthiness requirements for this modification are addressed by ICA document detailed on the Master Documents List (MDL).

This document must be passed to the operator or maintenance provider for insertion into the aircraft maintenance records.

17. Installation/ post installation instructions

Refer to installation and post-installation (IPI) report specified on the master documents list

18. Flight evaluation requirements

Refer to GAEL flight test plan(s) specified on the master documents list. These flight test plans are required for the trial installation project aircraft as specified by GAEL. Series-modified aircraft do not require a flight test unless otherwise specified by GAEL. An evaluation flight of autopilot-coupled LPV is recommended and should be carried out in VMC.

19. Post-flight evaluation

Not required for this change.

20. Design queries



Any queries relating to this change should be notified to the design office using a design query request (Design Form 8).

Equipment Schedule (ES)

Equipment schedule

Multiple Model List (MML)

GPS navigation system upgrade

	Name	Signature	Date
Compiled by	Allfred Vijay DIEUDONNÉ		04/03/2015
Approved by	B. S. PENT		5 MAR 2015

The technical content of this document is approved under the authority of DOA number EASA.21J.174

1. Approvals/ test specifications

Model number	Part number	Description
GNS 430W	011-01060-XX	GPS, Navigation / Comm. Unit (WAAS)
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR-06-041-2 Iss2 EASA.IM.210.920 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194	
Model number	Part number	Description
GNS 430AW	011-01061-XX	GPS, Navigation / Comm. Unit (WAAS). Unit with 16W COM transmitter @ 28VDC
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR-06-041-2 Iss2 EASA.IM.210.920 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194	
Model number	Part number	Description
GNS 530W	011-01064-XX	GPS, Navigation / Comm. Unit (WAAS).
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR- 06-007 Iss3 EASA.IM.210.919 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194	
Model number	Part number	Description
GNS 530AW	011-01066-XX	GPS, Navigation / Comm. Unit (WAAS). Unit with 16W COM transmitter @ 28VDC
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR- 06-007 Iss3 EASA.IM.210.919 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194	

Model number	Part number	Description
GNS 530W TAWS	011-01065-XX	GPS, Navigation / Comm. Unit (WAAS) with TAWS functions
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR- 06-007 Iss3 EASA.IM.210.953 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194 TSO-C151b	
Model number	Part number	Description
GNS 530AW TAWS	011-01067-XX	GPS, Navigation / Comm. Unit (WAAS) with TAWS functions and 16W COM transmitter @ 28VDC
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR- 06-007 Iss3 EASA.IM.210.953 N/A TSO- C34e, TSO- C36e, TSO- C37d, TSO- C38d, TSO- C40c, TSO- C113, TSO- C146a, TSO- C194 TSO-C151b	
Model number	Part number	Description
MD41-() series	MD41-14xxx	GPS Annunciation Unit For Garmin GNS and GTN Systems
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR-09-045 Iss2 N/A N/A TSO-C151a, TSO C129	
Model number	Part number	Description
GA 35	013-00235-XX	GPS/WAAS Antenna
Approvals Gama Aviation (Engineering) EQR: EASA: National: FAA:	Numbers EQR-08-158 Iss2 N/A N/A TSO-C144	

2. Weight details

Note: It is not permissible to replace a GNS 430/530 unit with a GNS-W TAWS version if the original GNS installation did not have an approved GNS with TAWS.

Model removed	Qty	Weight (lbs)
GNS 430/ GNS 430A (Installed with rack and back plate)	1	6.5
GNS 530/ A / TAWS / A TAWS (With rack and back plate)	1	8.7
GA56 (Flange Mount Antenna)	1	0.36

Model installed	Qty	Weight (lbs)
GNS 430W/ GNS 430AW (Installed with rack and back plate)	1	6.2
GNS 530W/ AW/ W TAWS/ AW TAWS (With rack and back plate)	1	8.2
GA 35	1	0.47
MD41-() series	1	0.2

3. Electrical load details

Model removed	Qty	Current Standby	Current Receive	Current Transmit
GNS 430	1	1.5 A @ 27.5 V _{DC}	15 mA @ 27.5 V _{DC} 10 mA @ 13.75V _{DC}	3.0 A @ 27.5 V _{DC} 6.0 A @ 13.75 V _{DC}
GNS 530	1	1.8 A @ 27.5 V _{DC} 3.6 A @ 13.75 V _{DC}	15 mA @ 27.5 V _{DC} 10 mA @ 13.75 V _{DC}	3.0 A @ 27.5 V _{DC} 6.0 A @ 13.75 V _{DC}
GA56	1	25mA @ +4 V _{DC}	N/A	N/A

Model installed	Qty	Current Standby	Current Receive	Current Transmit
GNS 430W/ GNS 430AW	1	1.2 A @ 28 V _{DC} 2.5 A @ 14 V _{DC}	15 mA @ 28 V _{DC} 10 mA @ 14 V _{DC}	3.0 A @ 28 V _{DC} 6.0 A @ 14 V _{DC}
GNS 530W/ AW/ W TAWS/ AW TAWS	1	1.4 A @ 28 V _{DC} 3.0 A @ 14 V _{DC}	15 mA @ 28 V _{DC} 15 mA @ 14 V _{DC}	3.0 A @ 28 V _{DC} 6.0 A @ 14 V _{DC}
GA 35	1	40 mA @ 5.5 V _{DC} 60 mA @ 4.7 V _{DC}	N/A	N/A
MD41-() series	1	0.25A	N/A	N/A

4. Documentation details


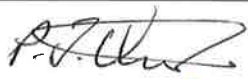

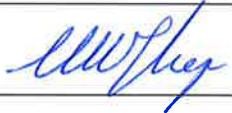
Model	Installation manual
GNS 530	190-00181-02 Rev T
GNS 430	190-00140-02 Rev.R
GNS 430W/ GNS 430AW	190-00356-08 Rev.K
GNS 530W/ AW/ W TAWS/ AW TAWS	190-00357-08 Rev.K
MD41-() series	9016478 Rev.C
GA56	190-00094-00 Rev.F
GA35	190-01284-00 Rev.D

Installation / Post Installation Procedures (IPI)

Installation/post-installation (IPI) procedures

Multi Model List

GPS navigation system upgrade

	Name	Signature	Date
Compiled by	J. LOMAS		10/10/2017
CVE Mechanical	P. J. VINER		10 SEP 2017
CVE Systems	M. SHIPP		10/10/2017
CVE Flight Ops	N/A	—	—
Approved by	M. SHIPP		10/10/2017
The technical content of this document is approved under the authority of DOA number EASA.21J.174			

Reference materials

Item	Details
1	Refer to Gama Aviation (Engineering) equipment schedule (ES) for installation manuals.
2	Refer to Gama Aviation (Engineering) master documents list (MDL) for drawing/report numbers.

Section A: Pre-approval conditions

Introduction:

The following conditions are a pre-requisite to allow the installation to be approved in accordance with this STC. Any areas of non-compliance must be referred to the design organisation for approval prior to certifying the aircraft as compliant with the STC conditions.

This document applies to all variants of the GNS430W/GNS530W as defined in the equipment schedule; these are referred to as GNS-W units hereafter.

A second VHF navigation or certified GPS system is installed, and must be displayed on a CDI within the pilot's primary field of view.

For aircraft operating under EASA OPS Part CAT (EU965-2012), a second VHF Comm is installed. National regulations may in some cases also require a second VHF Comm for any aircraft to access controlled airspace – see AFM supplement.

Note: It is not required that the second Comm and Nav/GPS system be a GNS-W.

The aircraft must be equipped with an operational DME and Transponder.

The physical installation of the GNS-W unit, and GA35 antenna must be in accordance with the associated installation manual as specified in the equipment schedule.

Where the GNS-W unit is outside the pilot's 'Normal' or 'Primary Maximum' field of view (as shown in AC23-1311-1C section 15), then presentation of GPS system annunciation will via a MidContinent Instruments MD41 GPS Annunciation Unit which is installed as part of this change if not already present on the aircraft.

Alternatively annunciators may be displayed on an existing EFIS system where available.

Note: OEM service bulletin upgrades may be required to the EFIS systems to permit LPV deviation display and annunciation. Approval of these upgrades are outside the scope of this STC.

The minimum annunciation displayed to the pilot within the 'Normal or 'Primary Maximum' field of view is as follows:

GPS or Nav source to CDI/HSI.

GPS Loss of Integrity (INTEG or LOI)

GPS in Approach mode

GPS in Terminal mode (TERM)

GPS Message (MSG) and GPS Waypoint (WPT)

The GNS-W must be mounted in the main radio stack (stack closest to pilot where a dual stack is fitted) and within the same horizontal level as the attitude indicator and HSI. It is not acceptable for the GNS-W to be mounted on the switch sub-panel below the main instrument panel unless the GPS distance to waypoint and mandatory annunciators are displayed on an EFIS within the pilot's primary field of view

The GPS antenna must be a listed approved item in the GNS-W installation manual and the co-axial cable must meet the installation manual requirements (Mil C17 or above – RG58 is not acceptable).

The electrical installation must meet the intent of CAA UK publications CAP747 GR18 and GR4/6 (see CS1259 sections 6 and 8).

This change is approved for aircraft certified single pilot operation only.

Aircraft type must be listed on multi model list (MML1259)

The following table lists the approved CDI/HSI and autopilot interfaces approved under this STC for fully-coupled LPV capabilities. Other existing autopilots and CDI/HSI combinations may provide a lesser capability – contact the DO for advice on compatibility.

Approved autopilot interface	Notes
ARC/Cessna 400B	
ARC/Cessna 800 IFCS	
ARC/Cessna 1000	
Avidyne DFC90	Used in retrofit installations of previous S-Tec 55/55X systems.
Bendix FCS-810	
Bendix M4	
Bendix Altimatic V	
Bendix-King KAP140	2-axis installations only.
Bendix-King KAP/KFC150	
Bendix-King KFC200	
Bendix-King KFC225	KFC225 uses digital signal for LNav steering and analogue for LPV
Bendix-King KFC250	
Bendix-King KFC275/325	
Bendix-King KFC300	
Bendix-King KFC400	
S-Tec 55/55X	55X uses digital signal for LNav steering and analogue for LPV
S-Tec 60-2	
S-Tec 2100	
S-Tec 1500	
Sperry SPZ200/500	
Sperry SPZ4000	
Collins FCS65	FCS65 uses digital signal for Lnav steering and analogue for LPV
Collins FCS-80	
Collins AP105	
Collins AP106	
Century 31	
Edo/Century 2000	Must have glideslope option included
Edo/Century/Piper Altimatic 111B/C	Must have optional glideslope coupler installed
Edo/Century IV	
Edo/Century 41	

Note: In EFIS installations, the autopilot should use the deviation and flag outputs derived from the EFIS wherever possible to ensure the EFIS display source and autopilot coupled source are CDI/H.S.I displays, the relay switching controlling autopilot data source MUST be the same as used to select the CDI/H.S.I Nav/GPS source – separate switch functions are not acceptable.

Approved interface	HSI/CDI	Notes
Aspen EFD1000		Autopilot should use EFD1000 outputs from ACU/ACU 2.
Avidyne EXP5000		
Bendix EFS40/50		Requires SB update for LPV
Sandel SN3308		Requires analogue wiring for LPV vertical guidance to be displayed
Sandel SN3500		Autopilot should use SN3500 outputs
Garmin GI106/106A/106B		Must be wired to GNS-W MAIN output
Garmin G500/600		Autopilot should use G500/600 outputs
Garmin G5		Must be wired to GNS-W MAIN output
Bendix-King KI525A		Must be wired to GNS-W MAIN output
Bendix-King KI206		Must be wired to GNS-W MAIN output
Bendix-King KI825		Requires SB update for LPV
Bendix-King KI209A		Must be wired to GNS-W MAIN output
Century NSD360		Must be wired to GNS-W MAIN output
Century NSD1000		Must be wired to GNS-W MAIN output
Sperry RD450/550/650		Must be wired to GNS-W MAIN output. 30Hz resolver versions only.
Bendix KPI552/B 553/A/B		Must be wired to GNS-W MAIN output and have a manual course knob. 30Hz resolver versions only.
Bendix IN831		Must be wired to GNS-W MAIN output
S-TEC ST-180		Must be wired to GNS-W MAIN output
Collins IND-351		Must be wired to GNS-W MAIN output
Collins 331A-xx		Must be wired to GNS-W MAIN output. 30Hz resolver versions only.
Collins EFIS 84/85/86		DPU and MPU require SB upgrade. Collins SIL 1-96 available for autopilot GPS approach interface wiring
Meggitt MAGIC EFIS		
MidContinent MD200		Must be wired to GNS-W MAIN output

Section B: Installation instructions

Upgrading a non-W unit to a WAAS unit.

For aircraft that do not already have a GNS-W unit installed, replace the original GNS unit with an equivalent GNS-W unit, as follows:

Note 1: It is not permissible under his STC to replace a GNS530 unit with a GNS530W-TAWS version if the original GNS installation did not have an approved GNS with TAWS.

Note 2: The existing GNS 430/530 unit can be upgraded via a Garmin Service Bulletin for WAAS, Garmin requires the return of the unit to apply the required changes.

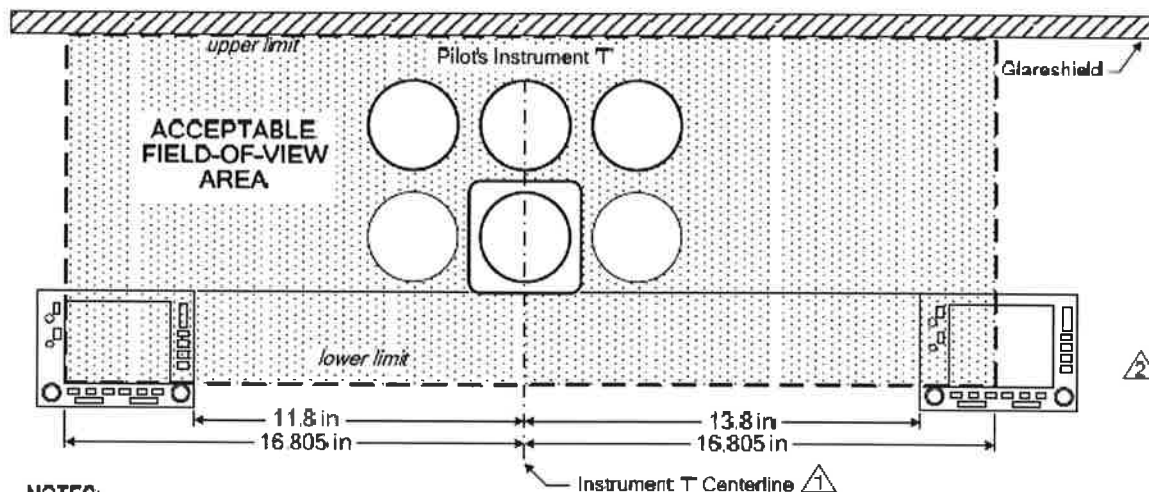
Item 1. GNS upgrade

- 1 Make the aircraft safe for maintenance in accordance with the manufacturer's standard practices.
- 2 If no current documented configuration status is held for the existing installation:
Switch on the existing non-WAAS GPS unit in maintenance mode (refer the GNS430/530 installation manual) and record all existing configuration settings on Gama document ECS1295. Power the system down on completion.
- 3 Remove the GNS 430/530 non-WAAS unit in accordance Garmin GNS install manual.
- 4 Obtain a WAAS-unit, or if required, send the existing GNS 430/530 to Garmin for WAAS upgrade.
- 5 Re-install the GNS-W unit into the aircraft rack in accordance with the GNS4530W/530W installation manual.

Item 2 Determine if a remote annunciator is required

1 Panel layout and component location.

The acceptable 'Normal' or 'Primary Maximum' vertical field-of-view includes the area from the top of the instrument panel to the portion of the instrument panel that is immediately below the basic 'T' instruments. An example of the viewing area based on the attitude indicator in an aircraft with basic "T" instruments is depicted below.



NOTES:

- △ FOR AIRCRAFT WITHOUT THE BASIC INSTRUMENT 'T' CONFIGURATION, THE CENTER OF THE PILOT'S YOKE OR CONTROL STICK IN THE NEUTRAL POSITION SHOULD BE USED TO DETERMINE THE CENTERLINE. IF THE CONTROL YOKE/STICK IS OFFSET FROM THE CENTER OF THE PILOT'S SEAT, AN IMAGINARY LINE EXTENDED THROUGH THE CENTER OF THE PILOT'S SEAT MAY BE USED AS THE PRIMARY VIEW CENTERLINE.

For an IFR-approved GPS installation, the GNS-W unit must be located within the $\pm 35^\circ$ horizontal acceptable field-of-view or source selection and GPS annunciations are required to be installed. If the GNS-W Series unit is installed between $\pm 30^\circ$ and $\pm 35^\circ$, at a minimum, source selection annunciation must be installed.

- 2 If the one of the following Mid-Continent ACU is already installed on the aircraft: MD41-1484W, MD41-1488W, MD41-1494W or MD41-1498W, check that the location field of view is in accordance with the above location drawing.
- 3 If no MD41 is installed but the aircraft has a compatible EFIS with LPV annunciation (see section A3 above), ensure all required annunciator functions are available.
- 4 Where no existing annunciator is installed and it has been determined from step 1 above that additional annunciators are required, proceed as follows:
- 5 Make the aircraft safe for maintenance in accordance with the manufacturer's standard practices. Observing appropriate health and safety precautions
- 6 Remove inspection panels, equipment, interior seats, and trim as necessary to gain access to the installation areas.
- 7 Install the ACU MD41(-) on the instrument panel in the pilot's normal field of view (+/- 30 degrees from centreline of pilot's forward view) in accordance with Gama Aviation (Engineering) drawings specified on the MDL-1259
- 8 Install bonding leads for lightning protection in accordance with aircraft manufacturer's maintenance manual/wiring diagrams and/or Gama Aviation (Engineering) drawings.

Item 3 GA 35 GPS WAAS Antenna:

If a GPS/WAAS antenna is already installed on the aircraft, it must be listed in the relevant GNS-W install manual as suitable (Installation manuals listed on ES-1259), before proceeding.

It is permissible to replace an existing Garmin GA56, Garmin 1027 or a Honeywell/Bendix King KA92 with a GA35 GPS WAAS Antenna. If the existing antenna is replaced with a Garmin GA35, the antenna must be located in the same airframe location, using the existing structural doubler which must be inspected for satisfactory condition, and utilizing the same fixing points without alteration. Any changes to antenna mounting/location requires additional certification, which is beyond the scope of this STC.

If required, install the GA35 antenna as follows:

- 1 Make the aircraft safe for maintenance in accordance with the manufacturer's standard practices. Observing appropriate health and safety precautions:
- 2 Remove the existing antenna in accordance with the Instructions for Continued Airworthiness in the install manual of the installed antenna.
- 3 Install the antenna in accordance with the GA35 Installation manual, as listed on the Equipment Schedule. Where replacing an antenna on a pressure hull, follow the aircraft maintenance manual instructions for sealing the antenna and carry out a pressurisation leak test as specified in the aircraft maintenance manual.
- 4 Verify that the antenna co-ax feeder is in good condition and made from Mil C17-RG-142 cable or co-axial cable of an equivalent specification. (RG58 is not acceptable)

Section C: Post installation instructions

Item	Action required
------	-----------------

- | | |
|---|---|
| 1 | Configure the installed and/or existing equipment in accordance with Equipment Configuration Settings (ECS) document ECS-1259. |
| 2 | Check the function of the installed and/or existing equipment in accordance with Garmin Install Manual listed on Equipment schedule document ES-1259. As follows: |

Section C: Post installation instructions

Item	Action required
------	-----------------

- Power up the GNS-W in maintenance mode and (where installed), check that each of the MD41 annunciators illuminate correctly when activated through the annunciator and deviations test page 2. Note: EFIS annunciations on a serial data bus cannot be checked through the maintenance mode but will illuminate during the power-up self-test.
- Confirm the GNS-W configuration has SBAS set to ON (AUX Pages).
- Check the GNS-W data base cycle is current.
- Carry out GNS-W interface checks with the altitude inputs in accordance with the Garmin installation manual configuration procedures (main inputs page 1) section 5.2.4
- Carry out GNS-W interface checks with the HSI/CDI in accordance with the Garmin installation manual configuration procedures (instrument panel self-test page) section 5.2.6
- With the autopilot and flight director engaged (where installed), carry out GNS-W HSI/CDI interface checks in accordance with the Garmin installation manual configuration procedures (instrument panel self-test page) section 5.2.6. Confirm that the autopilot and flight director respond to the vertical/ lateral test outputs from the GNS-W and that the autopilot correctly enters Approach mode (APP) automatically where configured to do so using the ILS/GPS APP discrete from the GNS-W
- Check the operation of the GNS-W discrete interfaces in accordance with the Garmin installation manual configuration procedures, section 5.2.8
- Check the operation of the GNS-W discrete outputs in accordance with Garmin installation manual configuration procedures, section 5.2.9
- Check the operation of the GNS-W VOR/LOC/GS interfaces on the CDI/HSI in accordance with the Garmin installation manual configuration procedures section 5.2.13
- Where the GNS-W provides vertical deviation to an external TAWS-A (Below glideslope for GPWS Mode 5), check that the interface is providing switched data between ILS glideslope and GPS, associated with the switching of the HSI/CDI display. Refer to the GNS-W aircraft specific installation drawings or GNS-W installation manual as appropriate.
- Carry out GNS-W GPS reception and VHF communication interference tests in accordance with the Garmin installation manual ground check procedures, section 5.3.6.
- For existing TAWS-B installations, check the TAWS-B audio level is satisfactory, is wired into an un-switched/un-muted audio input, and takes priority over any less critical audio warnings such as Traffic Advisory Systems.
- For existing TAWS-B installations where an external annunciator is installed, check that the annunciators function correctly in accordance with the GNS530W-TAWS installation manual, that lighting levels at maximum brightness and minimum dimming are acceptable for all phases of flight and that any lamp self-test functions perform correctly.

Section C: Post installation instructions

- | Item | Action required |
|------|---|
| 3 | Remove any label that restricts the GPS to "VFR only" or "Approved BRNav". |
| 4 | Simulate the GNS-W altitude source becoming lost or invalid by disconnecting power of the altitude encoder or tuning off the relevant altitude source on the RS232 or ARINC429 input page in maintenance mode. Check that the: <ol style="list-style-type: none"> 1. MD41 "MSG" annunciator illuminates (where installed) 2. GNS-W displays "No Alt Data" message. Where data sources were turned off, reset to original condition. Where the altitude encoder was disconnected reconnect. Check that the "No Alt Data" message clears. |
| 5 | Carry out an assessment of the panel lighting illumination levels in all expected operating conditions and confirm acceptability and lack of significant contrasting light levels to other equipment. |
| 6 | Carry out an assessment of the MD41 annunciators (contrast and brightness) and panel lighting illumination levels in all expected operating conditions (only applicable when an MD41 is installed). |
| 7 | Install a label on the P1 panel within the pilot's scan "GPS approved for SBAS/LPV" |

Section D: Post-installation additional actions.

- | Item | Action required |
|------|--|
| 1 | If a new circuit breaker has been installed, check that the circuit breaker(s) is correctly rated, labelled and accessible from the pilot's normal seated position. |
| 2 | The installer must perform an electrical load analysis to ensure that the electrical system's distribution bus limit is not exceeded and that the aircraft remains compliant with the requirement of providing 30 minutes of electrical power to those loads that are essential to continued safe flight and landing, e.g. FAR 14CFR 23.1353(h) or UK CAA CAP747 GR-4/6.
This Electrical Load Analysis (ELA) can be achieved via a practical test using Gama form ELA-CAT-Generic or by detailed analysis of battery/ generator capacity and loads. Details of the equipment removed/ installed are give in the Equipment Schedule. |
| 3 | EMC/ RFI compatibility in accordance with the Gama Aviation (Engineering) checklist (ref MDL-1259) |
| 4 | Ensure that there is adequate ambient air ventilation around the installed items of equipment. |
| 5 | Bonding checks on new items of equipment with all equipment installed: Ensure that the bonding to main battery ground is 50 milli-Ohms or less. |
| 6 | Compass check swing in accordance with installer's standard procedures (only where MD41 annunciator has been installed). |
| 7 | Functional checks on any disturbed equipment/ systems. |
| 8 | Remove all loose articles/ debris. |
| 9 | Check for full and free movement of flying controls. |
| 10 | Report any abnormal installation conditions to the design office using Gama Aviation (Engineering) Design Query Amendment Form 8. |

Section E: Documentation

Item	Action required
------	-----------------

- | | |
|---|--|
| 1 | Remove any existing GNS430/530 supplement from the Flight Manual |
| 2 | Insert new aircraft flight manual supplement (AFMS) specified on MDL1295 into the supplements section of the flight manual and update the amendment record page. Check the appropriate boxes in section 1.2 of the AFMS to state the applicable configuration installed. |
| 3 | Provide data to CAMO/ operator to permit update aircraft records in accordance with the Change Statement (CS) front sheet "Documents Affected" (e.g. Weight and Balance, Maintenance Manual etc. and a copy of the completed ECS-1259). |

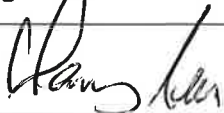



Equipment Configuration Settings (ECS)

Equipment Configuration Settings (ECS)

Multi Model List

GPS navigation system upgrade

Project reference: HL/MOD/1259

	Name	Signature	Date
Compiled by	H Lees		02-02-17
CVE Mechanical	NA P.J. VINER		7 FEB 2017
CVE Systems	M. SHIPP		7/2/2017
CVE Flight Ops	N/A		
Approved by	M. SHIPP		7/2/2017
The technical content of this document is approved under the authority of DOA number EASA.21J.174			

This document is provided to record the configuration of existing GNS and GNS-W systems and to aid in re-configuration of a GNS-W following upgrade as part of the STC embodiment or future repair/replacement.

Record all the configuration settings below, and retain a copy of this ECS document with the Instructions for Continued Airworthiness.

If any configuration appears to be incorrect or cannot be completed satisfactorily, seek advice from Gama Aviation's design office.

Date:	Configured By:	Aircraft Type:	Aircraft S/N:
/ /			

Installation Information – Record Values			
GNS-W Model	P/N	Software Level	S/N

If you do not have an existing equipment configuration document you should obtain the following details and documents to help achieve the proper configuration for the GNS-W equipment:

1. Contact the owner or the CAMO to identify all previous modifications that have been installed on the aircraft (other equipment may be interfaced to the GNS equipment).
2. Electrical Wiring diagrams of all the equipment connected to the GNS 430W/430AW or GNS 530W/530AW/TAWS and their install manuals.
3. GNS 400W Series Installation Manual 190-00356-08 Rev. K January 2014, or later revision, or
4. GNS 500W Series Installation Manual 190-00357-08 Rev. K January 2014 or later revision.

All references in this document have been taken from the GNS 400W Series Installation Manual 190-00356-08 Rev. K. However, the settings apply equally to the GNS 530W/530AW/TAWS versions, unless otherwise stated.

Refer to Section 5, Post Installation and Checkout Procedures, in the appropriate above-referenced installation manual and record the actual settings on this document in the spaces provided, so it can be used as a reference when replacing any GNS-W units in the future.

GNS430W/430AW & GNS 530W/530AW/TAWS Setup

Configuration Procedures

§5.2

Unit Options

This installation is being carried out on a fixed-wing aircraft. Therefore the GNS-W unit should not have HTAWS enabled.

Note: On a GNS-530W TAWS unit, TAWS is displayed when TAWS is selected.

1. Power off the system.
2. If presented with the question "Upgrade HTAWS"? then select NO.
3. Press CLR for NO and ENT for YES
4. After power up, verify that HTAWS or (H) is NOT appended to the product name on start-up screen.



Parameter	Selection Range or Option	Recorded Selection
Unit Options	CLR for NO	NO
	ENT for YES	

§5.3

Configuration Mode operations

With power applied to the aviation rack and the GNS-W unit turned off, press and hold the ENT key and turn the unit ON. Release the ENT key when the display activates. After the Data Base and Instrument Panel Self-test pages, the first page displayed is the **MAIN ARINC 429 CONFIG** page. While in Configuration Mode, pages can be selected by ensuring the cursor is off and rotating the small right knob.

To change data if installing a replacement or upgraded unit, on the displayed configuration page, press the small right knob (CRSR) to turn on the cursor. Rotate the large right knob to change between data fields and enter the data recorded on the following pages. Rotate the small right knob to change a field that the cursor is on. Once you have made the desired selection, press the ENT key to accept the entry.

The configuration pages described in the following sections are in the order found when rotating the right small knob clockwise starting at the MAIN ARINC 429 CONFIG page.

Notes:

1. Where data viewing pages are displayed on the GNS-W, they have been omitted from this document – only pages that require configuration are included.
2. The configuration pages shown here reflect main software version 4.00. Some differences in operation may be observed when comparing the information in this manual to later software versions.

WARNING:

Do not make any configuration changes other than enabling SBAS/WAAS as part of this STC. Any additional changes must be subject to separate approval as they may affect other existing modifications.

§5.3.1			
Main ARINC 429 Config page.			
Parameter		Possible Selections	Record Selections
IN1	DATA	VARIOUS	
	SPEED	LOW or HIGH	
IN 2	DATA	VARIOUS	
	SPEED	LOW or HIGH	
OUT	DATA	VARIOUS	
	SPEED	LOW or HIGH	
SDI and VNav			
Parameter		Possible Selections	Record Selections
SDI		COMMON, LNAV1, LNAV2	
VNAV		DISABLE or ENABLE LABELS	

§5.3.2 MAIN RS-232 CONFIG Page			
Parameter		Possible Selections	Record Selections
Channel 1 input		Various selection option based upon existing equipment installed on the aircraft.	
Channel 1 output			
Channel 2 input			
Channel 2 output			
Channel 3 input			
Channel 3 output			
Channel 4 input			
Channel 4 output			
Channel 5 input			
Channel 5 output			

§5.3.3

Main System Config		
Parameter	Possible Selections	Record Selections
CONFIGURE FUEL		
FUEL TYPE	AV gas	
	Jet A	
	Jet B	
CONFIGURE TERRAIN		
TERRAIN TYPE	NONE	
	TERRAIN	
	TERRAIN PROX	
	HTAWS	
	TAWS (GNS530W TAWS only)	
Discrettes		
CONFIGURE Discrettes		
GPS Select	Auto or Prompt	
COM Presets	Disabled or Enabled	
CONFIGURE Airframe		
Airframe	Fixed-wing / Helicopter	FIXED-WING
Air/Ground	Enabled or Disabled	Not available in Fixed-wing mode.

§5.3.7		
MAIN LIGHTING page		
Parameter		Recorded Values
DISPLAY	LIGHTING	
KEY		
DISPLAY	SOURCE	
KEY		
DISPLAY	RESP TIME/ MIN	
KEY		
DISPLAY	SLOPE/ OFFSET	
KEY		
DISPLAY	PHOTO TRANS %	
DISPLAY	PHOTO SLP/OFST	

§5.3.14		
VOR/LOC/GS CDI Page		
Parameter		Recorded Selections
DME CHNL MODE		

§5.3.15

VOR/LOC/GS ARINC 429 CONFIG Page			
Parameter		Possible Selections	Recorded Selections
Speed	RX	Low or High	
	TX	Low or High	
SDI		Common, VOR/ILS 1, VOR/ILS 2	
DME MODE		Directed freq 1 or Directed freq 2	

§5.3.16

GPS Vertical offset	
Parameter	Recorded Value
GPS Antenna Height ABV GND	

Note: All GDL pages have been excluded as datalink services are not enabled in Europe.

TAWS Configuration (GNS530W-TAWS ONLY). Paragraph number related to GNS530W installation manual.

§5.3.21 (530W)

TAWS AUDI CONFIG 1		
Parameter	Possible Selections	Recorded Selections
TAWS CONFIG		TAWS
VOICE GENDER	Female or Male	
VOLUME	0% to 100%	



§5.3.22 (530W)	Selection	TAWS Alert Messages		
		ALERT	Caution/Warning	Settings
		Reduced Terrain Clearance	Caution	
			Warning	
		Reduced Obstacle Clearance	Caution	
			Warning	
		Imminent Terrain Impact	Caution	
			Warning	
		Imminent Obstacle Impact	Caution	
			Warning	
		Permature Descent Rate	Caution	
		Excessive Descent Rate	Caution	
			Warning	
		Negative Climb Rate	Caution	
Voice Call Out	500'			

Instructions for Continued Airworthiness (ICA)

Instructions for continued airworthiness (ICA) control document

Multi Model List

GPS navigation system upgrade

	Name	Signature	Date
Compiled by	H. LEEJ		2 / 3 / 16
CVE Mechanical	P.J. VINEY		3 MAR 2016
CVE Systems	A. DRUMMOND		02/03/2016.
Approved by	B.S. PENT		7 MARCH 2016

The technical content of this document is approved under the authority of DOA number EASA.21J.174

This ICA control document is issued for the following items under the Gama Aviation (Engineering) change reference HL/MOD/1259, which is for a GPS navigation system upgrade for:

- RNAV 5 (BRNAV) operations in accordance with EASA AMC20-4
- RNAV 1 (PRNAV) operations in accordance with JAA TGL-10
- GPS non-precision approach in accordance with AMC20-27 including APV Baro VNAV using geometric altitude.
- GPS LPV approaches in accordance with AMC20-28.

Model number	Description	ICA document reference	Issue
GNS430W		ICA-GNS430W-01	3
GNS430AW		ICA-GNS430AW-01	1
GNS530W		ICA-GNS530W-01	1
GNS530AW		ICA-GNS530AW-01	1
GNS530W TAWS		ICA-GNS530W TAWS	1
GNS530AW TAWS		ICA-GNS530AW TAWS-01	2
GA35		ICA-GA35-01	3
MD41-()		ICA-MD41-()-01	1

Individual ICA documents are issued for each item of equipment. Drawings associated with this change are referenced on the master documents list (MDL).

Report any abnormal airworthiness conditions to the design office using Gama Aviation (Engineering) Design Query Amendment Form 8.

Airworthiness Limitations:

None

The airworthiness limitations section is approved; variations must also be approved.

Instructions Specific to this Change:

Whenever a GNS-W unit is replaced, the following additional checks must be carried out to ensure continued compliance with the certification requirements for the above operational procedures:

Item Action required

- 1 Carry out the Configuration settings as per the ECS document record for the specific installation.
- 2 Power up the GNS-W in maintenance mode and check that (where installed) each of the MD41 annunciators illuminate correctly when activated through the annunciator and deviations test page
- 3 Confirm the GNS-W configuration has SBAS set to ON.
- 4 Check the GNS-W data base cycle is current.
- 5 Carry out GNS-W interface checks with the altitude inputs in accordance with the Garmin installation manual configuration procedures (main inputs page 1) section 5.2.4
- 6 Carry out GNS-W interface checks with the HSI/CDI in accordance with the Garmin installation manual configuration procedures (instrument panel self-test page) section 5.2.6

Item Action required

- 7 With the autopilot and flight director engaged (where installed), carry out GNS-W HSI/CDI interface checks in accordance with the Garmin installation manual configuration procedures (instrument panel self-test page) section 5.2.6. Confirm that the autopilot and flight director respond to the vertical/ lateral test outputs from the GNS-W
- 8 Check the operation of the GNS-W discrete interfaces in accordance with the Garmin installation manual configuration procedures, section 5.2.8
- 9 Check the operation of the GNS-W discrete outputs in accordance with Garmin installation manual configuration procedures, section 5.2.9
- 10 Check the operation of the GNS-W VOR/LOC/GS interfaces on the CDI/HSI in accordance with the Garmin installation manual configuration procedures section 5.2.13
- 11 Carry out GNS-W GPS reception and VHF communication interference tests in accordance with the Garmin installation manual ground check procedures, section 5.3.6
- 12 Simulate the GNS-W altitude source becoming lost or invalid by disconnecting power to the altitude encoder or turning off the relevant altitude source on the RS232 or ARINC429 input page in maintenance mode. Check that the:
 1. MD41 "MSG" annunciator illuminates (where installed)
 2. GNS-W displays 'No Alt Data' message

Where data sources were turned off, reset to original condition. Where the altitude encoder was disconnected, reconnect. Check that the 'No Alt Data' message clears.

Instructions for continued airworthiness (ICA)

Document reference	ICA-GNS430W-01	Issue	3	DQA ref	12-108
Model:	GNS430W	Description	GPS, navigation and communication unit		

1. **Introduction:** This ICA document should be used in conjunction with the Gama Engineering ICA control sheet, Gama Engineering drawings (itemised on the master documents list), aircraft maintenance manual, and the equipment manufacturer's installation manual where applicable
2. **Description:** The GNS430W is a panel mounted unit for the control and display of the aircraft's global positioning system (GPS), VHF navigation and VHF communications. Interfaces with other systems on the aircraft are shown on the modification drawings. A full description of the unit is provided in the manufacturer's installation manual.
3. **Installation manual:** Garmin 190-00356-08 (rev F or higher)
4. **Inspection schedule:** 12 months (unless otherwise satisfied by approved maintenance schedule inspections for the aircraft).
5. **Inspection requirements:** The GNS430W is on-condition; visually inspect the installation and equipment for mechanical security, cable routing and connector integrity
6. **Special tools:** None
7. **Troubleshooting:** Refer to modification drawings and equipment manufacturer's installation manual
8. **Airworthiness limitations:** None
9. **Removal/installation**
 1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices.
 2. Observe appropriate health and safety precautions
 3. Isolate the unit's power supply.
 4. Insert a 3/32nd Allen key into the hole in the unit bezel.
 5. Unscrew the locking screw and carefully withdraw the unit from the rack.
 6. Installation is a reverse procedure.
 7. Reconnect the unit's power supply.
 8. After a unit has been replaced, it must be programmed to match the aircraft configuration in accordance with the configuration procedures. These are documented in the Gama Engineering drawings.
 9. Using standard ramp test equipment, simulate VOR/LOC and GS signals and check correct display of all deviations and flags on respective navigation indicators

Check for satisfactory VHF radio communications by communicating with a local ground station.

With the aircraft parked away from buildings, allow the GPS to acquire satellite signals and ensure accuracy of computed present position and satisfactory signal/noise signals for satellite reception

Gama Engineering Ltd

Design Organisation Approval EASA.21J.174

Instructions for continued airworthiness (ICA)

Document reference	ICA-GNS430W-01	Issue	3	DQA ref	12-108
Model:	GNS430W	Description	GPS, navigation and communication unit		

	Name	Signature	Date
Compiled by	D. GILLIAM	<i>D. Gilliam</i>	31/8/12
CVE Mechanical	N/A	<i>N/A</i>	—
CVE Systems	H. LAEJ	<i>Hans Laej</i>	31/8/12
The technical content of this document is approved under the authority of DOA number EASA.21J.174			
Approved by	H. LAEJ	<i>Hans Laej</i>	31/8/12

Instructions for Continued Airworthiness (ICA)

GNS430AW

GPS, Navigation / Comm. Unit (WAAS)

	Name	Signature	Date
Compiled by	Alfred Vijay DIEUDONNÉ		03/03/2015
CVE Mechanical	P. ABBOTT		04 MAR 2015
CVE Systems	A. DRUMMOND		03/03/2015
CVE Flight Ops	N/A BJP	-	-
Approved by	B.S. PEAT		5 MAR 2015

The technical content of this document is approved under the authority of DOA number EASA.21J.174

1 Introduction:

This ICA document should be used in conjunction with the Gama Aviation (Engineering) ICA control sheet, Gama Aviation (Engineering) drawings [itemised on the Master Documents List (MDL)], the aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.

2 Description:

The GNS430AW is a panel mounted unit for the control and display of the aircraft's global positioning system (GPS), VHF navigation and VHF communications. This is an unit with 16W COM transmitter. Interfaces with other systems on the aircraft are shown on the modification drawings. A full description of the unit is provided in the manufacturer's installation manual.

3 Installation Manual:

190-00356-08 Rev.K (January 2014).

4 Inspection Schedule:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection schedule.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection schedule shall be used in conjunction with that given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect every 12 months, or in accordance with the existing approved maintenance schedule for the equipment installed.

5 Inspection Requirements:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection requirements.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection requirements shall be used in conjunction with those given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect the structural provision for evidence of: cracks, corrosion, loose rivets, missing protective treatments or any other damage.

The GNS430AW itself is on-condition: visually inspect the installation for mechanical security, and connector integrity. Check the condition and routing of electrical cables looking for signs of exposed wires, chafing or missing insulation, adequate security and clamping of cable ties and clips etc.

Battery Replacement:

The GNS430AW has an internal keep-alive battery that will last about 10 years. The battery is used for GPS system information. Regular planned replacement is not necessary. The GNS430AW will display a 'low battery' message when replacement is required. Once the low battery message is displayed, the battery should be replaced within 1 to 2 months.

If the battery is not replaced and becomes totally discharged, the GNS430AW unit will remain fully operational, but the GPS signal acquisition time may be increased. This acquisition time can

be reduced by entering a new seed position each time the unit is powered on. There is no loss of function or accuracy of the 400W series unit with a dead battery.

The battery must be replaced by the Garmin factory repair station or factory authorized repair station.

6 Special Tools:

No special tools are required for system checkout.

7 Troubleshooting:

If error indications are displayed on the unit, consult the Troubleshooting section contained in the 400W Series Installation Manual, listed under section 3 of this document.

8 Airworthiness Limitations:

Refer to the ICA control document for this change, as listed on the MDL, for applicable airworthiness limitations.

The airworthiness limitations section is approved; variations must also be approved.

9 Removal/Installation:

- 9.1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices, observing appropriate health and safety precautions.
- 9.2. Trip the appropriate system circuit breaker
- 9.3. Insert a 3/32nd Allen key into the hole in the unit bezel.
- 9.4. Unscrew the locking screw and carefully withdraw the unit from the rack, taking care not to strain any wiring interconnects.
- 9.5. Disconnect all the connectors from the equipment and install ESDS compliant caps
- 9.6. Remove the unit from the instrument panel.
- 9.7. Re-installation is a reverse of the above.
- 9.8. Test system in accordance with paragraph 10 below.
- 9.9. Remove all loose articles and debris.

10 Testing:

- 10.1. After a unit has been replaced, ensure that the original configuration settings as recorded on the ECS document.
- 10.2. Carry out a functional test on the system in accordance with the Garmin installation manual, section 5.4 and 5.5 and the ECS configuration settings document.
- 10.3. Using standard ramp test equipment, simulate VOR/LOC and GS signals and check correct display of all deviations and flags on respective navigation indicators
- 10.4. Check for satisfactory VHF radio communications by communicating with a local ground station.
- 10.5. With the aircraft parked away from buildings, allow the GPS to acquire satellite signals and ensure accuracy of computed present position and satisfactory satellite reception.
- 10.6. Additional system tests detailed on the ICA control document.
- 10.7. Carry out functional checks on any disturbed equipment/systems.

11 Cleaning

- 11.1. The front bezel, keypad, and display can be cleaned with a soft cotton cloth dampened with clean water. DO NOT use any chemical-cleaning agents. Care should be taken to avoid scratching the surface of the display.

Instructions for continued airworthiness (ICA)

Document reference	ICA-GNS530W-01	Issue	1	DQA ref	N/A
Model:	GNS530W	Description	GPS, navigation and communication unit		





1. **Introduction:** This ICA document should be used in conjunction with the Lees Avionics ICA control sheet, Lees Avionics drawings (itemised on the master documents list), aircraft maintenance manual, and the equipment manufacturer's installation manual where applicable
2. **Description:** The GNS530W is a panel mounted unit for the control and display of the aircraft's global positioning system (GPS), VHF navigation and VHF communications. Interfaces with other systems on the aircraft are shown on the modification drawings. A full description of the unit is provided in the manufacturer's installation manual.
3. **Installation manual:** Garmin 190-00357-02 Rev G
4. **Inspection schedule:** 12 months (unless otherwise satisfied by approved maintenance schedule inspections for the aircraft).
5. **Inspection requirements:** The GNS530W is on-condition; visually inspect the installation and equipment for mechanical security, cable routing and connector integrity
6. **Special tools:** None
7. **Troubleshooting:** Refer to modification drawings and equipment manufacturer's installation manual
8. **Removal/installation**
 1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices.
 2. Observe appropriate health and safety precautions
 3. Trip the appropriate system circuit breaker(s).
 4. Insert a 3/32nd Allen key into the hole in the unit bezel.
 5. Unscrew the locking screw and carefully withdraw the unit from the rack.
 6. Installation is a reverse procedure.
 7. Reset the appropriate system circuit breaker(s)
 8. After a unit has been replaced, it must be programmed to match the aircraft configuration in accordance with the configuration procedures. These are documented in the Lees Avionics drawings.

	Name	Signature
Compiled by	N. SMITH	
CVE Mechanical	N/A	
CVE Systems	H. LEES	
The technical content of this document is approved under the authority of DOA number EASA.21J.174		
Approved by	Harry Lees	Head of Design 

Instructions for Continued Airworthiness (ICA)

GNS530AW

GPS, Navigation / Comm. Unit (WAAS)

	Name	Signature	Date
Compiled by	Alfred Vijay DIEUDONNÉ		03/03/2015
CVE Mechanical	P. ABBOTT		04 MAR 2015
CVE Systems	A. DRUMMOND		03/03/2015
CVE Flight Ops	N/A EISD	-	-
Approved by	B. S. FEAT		5 MAR 2015

The technical content of this document is approved under the authority of DOA number EASA.21J.174

1 Introduction:

This ICA document should be used in conjunction with the Gama Aviation (Engineering) ICA control sheet, Gama Aviation (Engineering) drawings [itemised on the Master Documents List (MDL)], the aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.

2 Description:

The GNS530AW is a panel mounted unit for the control and display of the aircraft's global positioning system (GPS), VHF navigation and VHF communications. This is an unit with 16W COM transmitter. Interfaces with other systems on the aircraft are shown on the modification drawings. A full description of the unit is provided in the manufacturer's installation manual.

3 Installation Manual:

190-00357-08 Rev.K (January 2014).

4 Inspection Schedule:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection schedule.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection schedule shall be used in conjunction with that given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect every 12 months, or in accordance with the existing approved maintenance schedule for the equipment installed.

5 Inspection Requirements:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection requirements.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection requirements shall be used in conjunction with those given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect the structural provision for evidence of: cracks, corrosion, loose rivets, missing protective treatments or any other damage.

The GNS530AW itself is on-condition: visually inspect the installation for mechanical security, and connector integrity. Check the condition and routing of electrical cables looking for signs of exposed wires, chafing or missing insulation, adequate security and clamping of cable ties and clips etc.

Battery Replacement:

The GNS530AW has an internal keep-alive battery that will last about 10 years. The battery is used for GPS system information. Regular planned replacement is not necessary. The GNS530AW will display a 'low battery' message when replacement is required. Once the low battery message is displayed, the battery should be replaced within 1 to 2 months.

If the battery is not replaced and becomes totally discharged, the GNS530AW unit will remain fully operational, but the GPS signal acquisition time may be increased. This acquisition time can

be reduced by entering a new seed position each time the unit is powered on. There is no loss of function or accuracy of the 500W series unit with a dead battery.

The battery must be replaced by the Garmin factory repair station or factory authorized repair station.

6 Special Tools:

No special tools are required for system checkout.

7 Troubleshooting:

If error indications are displayed on the GNS530AW, consult the Troubleshooting section contained in the 500W Series Installation Manual, listed under section 3 of this document.

8 Airworthiness Limitations:

Refer to the ICA control document for this change, as listed on the MDL, for applicable airworthiness limitations.

The airworthiness limitations section is approved; variations must also be approved.

9 Removal/Installation:

- 9.1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices, observing appropriate health and safety precautions.
- 9.2. Trip the appropriate system circuit breaker
- 9.3. Insert a 3/32nd Allen key into the hole in the unit bezel.
- 9.4. Unscrew the locking screw and carefully withdraw the unit from the rack, taking care not to strain any wiring interconnects.
- 9.5. Disconnect all the connectors from the equipment and install ESDS compliant caps
- 9.6. Remove the unit from the instrument panel.
- 9.7. Re-installation is a reverse of the above.
- 9.8. Test system in accordance with paragraph 10 below.
- 9.9. Remove all loose articles and debris.

10 Testing:

- 10.1. After a unit has been replaced, ensure that the original configuration settings as recorded on the ECS document.
- 10.2. Carry out a functional test on the system in accordance with the Garmin installation manual, section 5.4 and 5.5 and the ECS configuration settings document.
- 10.3. Using standard ramp test equipment, simulate VOR/LOC and GS signals and check correct display of all deviations and flags on respective navigation indicators
- 10.4. Check for satisfactory VHF radio communications by communicating with a local ground station.
- 10.5. With the aircraft parked away from buildings, allow the GPS to acquire satellite signals and ensure accuracy of computed present position and satisfactory satellite reception.
- 10.6. Additional system tests detailed on the ICA control document.
- 10.7. Carry out functional checks on any disturbed equipment/systems.

11 Cleaning

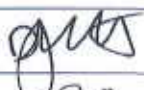

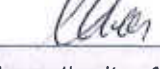
- 11.1. The front bezel, keypad, and display can be cleaned with a soft cotton cloth dampened with clean water. DO NOT use any chemical-cleaning agents. Care should be taken to avoid scratching the surface of the display.

Instructions for continued airworthiness (ICA)

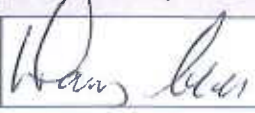
Document reference		ICA-GNS530W-TAWS	Issue	1	DQA ref	N/A
Model	GNS530W TAWS	Description	GPS, navigation, communication unit			

Item

- 1. Introduction:** This ICA document should be used in conjunction with the Lees Avionics ICA control sheet, Lees Avionics drawings (itemised on the master documents list), aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.
- 2. Description:** The GNS530W TAWS is a panel mounted unit used for GPS navigation, VHF navigation and VHF communications. GPS signals are received by a low profile antenna; VHF navigation/ communication antennas are as specified in aircraft wiring diagrams/ Lees Avionics drawings. The unit interfaces with a CDI or HSI to provide desired course/ cross track deviation; it can also be used to channel the DME. The unit also includes Class B TAWS capability; visual warnings are via a dedicated TAWS annunciator.
- 3. Installation manual:** 190-00357-02
- 4. Inspection schedule:** 12 months. NB The terrain database must be kept up to date; refer to Garmin published data for information. Operators should use this information to determine if the installed terrain database is current and appropriate for the area of intended operation.
- 5. Inspection requirements:** The unit is on-condition: visually inspect the installation and equipment for mechanical security, cable routing and connector integrity.
 1. Visually inspect the installation and equipment for mechanical security, cable routing and connector integrity.
 2. Carry out a functional test as specified in section 9 (item 8) below
- 6. Special tools:** None
- 7. Troubleshooting:** Refer to the installation manual and Lees Avionics drawings
- 8. Airworthiness Limitations:** None
- 9. Removal/installation:**
 1. Observe appropriate health and safety precautions
 2. Trip the appropriate system circuit breaker(s).
 3. Insert a 3/32nd Allen key into the hole in the unit bezel.
 4. Unscrew the locking screw and carefully withdraw the unit from the rack.
 5. Installation is a reverse procedure.
 6. Reset the appropriate system circuit breaker(s)
 7. After a unit has been replaced, ensure that the original configuration settings, TAWS capability and TAWS callouts are selected in the configuration pages
 8. Carry out a functional test on the system in accordance with the Garmin installation manual, section 5.4 and 5.5

	Name	Signature	Date
Compiled by	D. WYATT		8.12.10
CVE Mechanical	R GRAY		08-DEC-2010
CVE Systems	H. LEES		8.12.10

The technical content of this document is approved under the authority of DOA number EASA.21J.174

Approved by	Harry Lees		8.12.10
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Instructions for Continued Airworthiness (ICA)

GNS530AW TAWS

GPS, Navigation / Comm. Unit (WAAS)

	Name	Signature	Date
Compiled by	Alfred Vijay DIEUDONNÉ		12/02/2015
CVE Mechanical	P. ABBOTT		04 MAR 2015
CVE Systems	A. Drummond		03/03/2015
CVE Flight Ops	N/A BTP	-	-
Approved by	B. S. REAT		5 MAR 2015

The technical content of this document is approved under the authority of DOA number EASA.21J.174

1 Introduction:

This ICA document should be used in conjunction with the Gama Aviation (Engineering) ICA control sheet, Gama Aviation (Engineering) drawings [itemised on the Master Documents List (MDL)], the aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.

2 Description:

The GNS530AW TAWS is a panel mounted unit for the control and display of the aircraft's global positioning system (GPS), VHF navigation and VHF communications. This is an unit with 16W COM transmitter. GPS signals are received by a low profile antenna; VHF navigation/communication antennas are as specified in aircraft wiring diagrams/ Gama Aviation (Engineering) drawings. The unit interfaces with a CDI or HSI to provide desired course/ cross track deviation; it can also be used to channel the DME. The unit also includes Class B TAWS capability; visual warnings are via a dedicated TAWS Interfaces with other systems on the aircraft are shown on the modification drawings. A full description of the unit is provided in the manufacturer's installation manual.

3 Installation Manual:

190-00357-08 Rev.K (January 2014).

4 Inspection Schedule:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection schedule.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection schedule shall be used in conjunction with that given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect every 12 months, or in accordance with the existing approved maintenance schedule for the equipment installed.

Note: The terrain database must be kept up to date; refer to Garmin published data for information. Operators should use this information to determine if the installed terrain database is current and appropriate for the area of intended operation.

5 Inspection Requirements:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection requirements.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection requirements shall be used in conjunction with those given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect the structural provision for evidence of: cracks, corrosion, loose rivets, missing protective treatments or any other damage.

The GNS530AW TAWS itself is on-condition: visually inspect the installation for mechanical security, and connector integrity. Check the condition and routing of electrical cables looking for signs of exposed wires, chafing or missing insulation, adequate security and clamping of cable ties and clips etc.

Battery Replacement:

The GNS530AW TAWS has an internal keep-alive battery that will last about 10 years. The battery is used for GPS system information. Regular planned replacement is not necessary. The GNS530AW TAWS will display a 'low battery' message when replacement is required. Once the low battery message is displayed, the battery should be replaced within 1 to 2 months.

If the battery is not replaced and becomes totally discharged, the GNS530AW TAWS unit will remain fully operational, but the GPS signal acquisition time may be increased. This acquisition time can be reduced by entering a new seed position each time the unit is powered on. There is no loss of function or accuracy of the 500W series unit with a dead battery.

The battery must be replaced by the Garmin factory repair station or factory authorized repair station.

6 Special Tools:

No special tools are required for system checkout.

7 Troubleshooting:

If error indications are displayed on the GNS530AW TAWS, consult the Troubleshooting section contained in the 500W Series Installation Manual, listed under section 3 of this document.

8 Airworthiness Limitations:

Refer to the ICA control document for this change, as listed on the MDL, for applicable airworthiness limitations.

The airworthiness limitations section is approved; variations must also be approved.

9 Removal/Installation:

- 9.1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices, observing appropriate health and safety precautions.
- 9.2. Trip the appropriate system circuit breaker
- 9.3. Insert a 3/32nd Allen key into the hole in the unit bezel.
- 9.4. Unscrew the locking screw and carefully withdraw the unit from the rack, taking care not to strain any wiring interconnects.
- 9.5. Disconnect all the connectors from the equipment and install ESDS compliant caps
- 9.6. Remove the unit from the instrument panel.
- 9.7. Re-installation is a reverse of the above.
- 9.8. Test system in accordance with paragraph 10 below.
- 9.9. Remove all loose articles and debris.

10 Testing:

- 10.1. After a unit has been replaced, ensure that the original configuration settings as recorded on the ECS document, TAWS capability and TAWS callouts are selected in the configuration pages.
- 10.2. Carry out a functional test on the system in accordance with the Garmin installation manual, section 5.4 and 5.5 and the ECS configuration settings document.
- 10.3. Using standard ramp test equipment, simulate VOR/LOC and GS signals and check correct display of all deviations and flags on respective navigation indicators
- 10.4. Check for satisfactory VHF radio communications by communicating with a local ground station.
- 10.5. With the aircraft parked away from buildings, allow the GPS to acquire satellite signals and ensure accuracy of computed present position and satisfactory satellite reception.
- 10.6. Additional system tests detailed on the ICA control document.
- 10.7. Carry out functional checks on any disturbed equipment/systems.

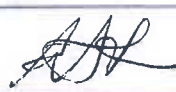





11 Cleaning

- 11.1. The front bezel, keypad, and display can be cleaned with a soft cotton cloth dampened with clean water. DO NOT use any chemical-cleaning agents. Care should be taken to avoid scratching the surface of the display.

Instructions for Continued Airworthiness (ICA)

GA 35

GPS/WAAS Antenna

	Name	Signature	Date
Compiled by	R. KINDER		21 MARCH 14
CVE Mechanical	R GRAY		21 -MARCH-2014
CVE Systems	A. DRUMMOND		21/03/2014.
CVE Flight Ops	N/A		
The technical content of this document is approved under the authority of DOA number EASA.21J.174			
Approved by	M. LYON		24/03/2014

1. Introduction:

This ICA document should be used in conjunction with the Gama Engineering ICA control sheet, Gama Engineering drawings [itemised on the Master Documents List (MDL)], the aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.

2. Description:

The Garmin GA35 is a low profile GPS/WAAS antenna. The coax cable interface to the receiving equipment provides both power to the antenna preamp from the receiving equipment and signal back to the receiving equipment.

3. Installation Manual:

Garmin 190-00848-00 (rev B or higher)

4. Inspection Schedule:

Inspect every 12 months (unless otherwise specified by approved maintenance schedule inspections for the aircraft).

5. Inspection Requirements:

The GA35 is on-condition; visually inspect the installation and equipment for mechanical security, cable routing and connector integrity.

6. Special Tools:

None

7. Troubleshooting:

Refer to modification drawings and equipment manufacturer's installation manual.

8. Airworthiness Limitations:

Refer to the ICA control document for this change, as listed on the MDL, for applicable airworthiness limitations.

The airworthiness limitations section is approved; variations must also be approved.

9. Removal/Installation:

- 9.1. Make the aircraft safe for maintenance in accordance with aircraft manufacturer's standard practices, observing appropriate health and safety precautions.
- 9.2. Trip the appropriate system circuit breaker.
- 9.3. Remove the four mounting screws that secure the antenna then withdraw the antenna sufficiently to remove the connector from the underside of the antenna.
- 9.4. Installation is the reverse procedure.
- 9.5. When installing the antenna, seal the periphery with a non-corrosive sealant. Allow to cure before flight.

For pressurised or non-pressurised aircraft, sealants that meet AMS-S-8802 (such as PR-1440B½ or PR-1422B½, manufactured by PRC-DeSoto International) are generally used throughout the aircraft industry and known to provide good sealing. These sealants are the preferred choice for use on GEL designs.






For non-pressurised aircraft only, a non-corrosive sealant meeting MIL-A-46146 (such as Dow Corning® 748) is deemed acceptable.

- 9.6. Carry out functional checks on any disturbed equipment/ systems.
- 9.7. With the aircraft parked away from buildings, allow the GPS to acquire satellite signals and ensure accuracy of computed present position and satisfactory signal/noise signals for satellite reception.
- 9.8. Remove all loose articles/ debris.

Instructions for Continued Airworthiness (ICA)

MD41-() Series

GPS Annunciation Unit

	Name	Signature	Date
Compiled by	Allfred Vijay DIEUDONNÉ		12/02/2015
CVE Mechanical	P. ABBOTT		04 MAR 2015
CVE Systems	A. DRUMMOND		03/03/2015
CVE Flight Ops	N/A 	—	—
Approved by	B.S. PEAR		5 MAR 2015
The technical content of this document is approved under the authority of DOA number EASA.21J.174			

1 Introduction:

This ICA document should be used in conjunction with the Gama Aviation (Engineering) ICA control sheet, Gama Aviation (Engineering) drawings [itemised on the Master Documents List (MDL)], the aircraft maintenance manual, and the equipment manufacturer's installation manual as applicable.

2 Description:

The MD41-() is a compact, self-contained GPS Annunciation unit. This unit displays status annunciation received from the compatible GPS systems listed below

Model Number(s): MD41-1484W 14VDC Horizontal Mount
 MD41-1488W 28VDC Horizontal Mount
 MD41-1494W 14VDC Vertical Mount
 MD41-1498W 28VDC Vertical Mount

3 Installation Manual:

9016478 Rev.E (January 26, 2015).

4 Inspection Schedule:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection schedule.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection schedule shall be used in conjunction with that given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect every 12 months, or in accordance with the existing approved maintenance schedule for the equipment installed.

5 Inspection Requirements:

Refer to Airworthiness Limitations section below or on the ICA Control Sheet for this change, as listed on the MDL, for overriding inspection requirements.

The airworthiness limitations will be specific to the aircraft type, and usually only applicable to pressurised aircraft.

The following inspection requirements shall be used in conjunction with those given in the airworthiness limitations or where there are no airworthiness limitations given in the documents described above. Where there are conflicting instructions, the airworthiness limitations shall take precedence but in cases of doubt contact Gama Aviation (Engineering) Limited for clarification.

Inspect the structural provision for evidence of: cracks, corrosion, loose rivets, missing protective treatments or any other damage.

The unit itself is on-condition: visually inspect the installation for mechanical security, and connector integrity. Check the condition and routing of electrical cables looking for signs of exposed wires, chafing or missing insulation, adequate security and clamping of cable ties and clips etc.

6 Special Tools:

No special tools are required.

7 Troubleshooting:

Refer to the installation manual of the equipment connected to this unit, and Gama Aviation (Engineering) drawings.

8 Airworthiness Limitations:

Refer to the ICA control document for this change, as listed on the MDL, for applicable airworthiness limitations.

The airworthiness limitations section is approved; variations must also be approved.

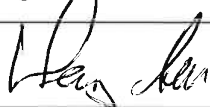



9 Removal/Installation:

- 9.1. Make the aircraft safe for maintenance in accordance with the aircraft manufacturer's standard practices, observing appropriate health and safety precautions.
- 9.2. Trip the appropriate system circuit breaker
- 9.3. Unscrew the locking screw and carefully withdraw the unit from the rack, taking care not to strain any wiring interconnects.
- 9.4. Disconnect all the connectors from the equipment and install ESDS compliant caps.
- 9.5. Remove the unit from the instrument panel.
- 9.6. Re-installation is a reverse of the above.
- 9.7. Test system in accordance with GPS manufacturers' installation manual. Refer to directions regarding the testing of annunciations, and any additional tests specified for the installation on the ICA control document.
- 9.8. Carry out functional checks on any disturbed equipment/ systems.
- 9.9. Remove all loose articles and debris.

Multi Model List (MML)

Multiple Model List (MML)

GPS Navigation System Upgrade

	Name	Signature	Date
Compiled by	H Lees		02-02-17
CVE Mechanical	P. J. VINER		7 FEB 2017
CVE Systems	M. SHIPP		7/02/2017
Approved by	M. SHIPP		7/02/2017

The technical content of this document is approved under the authority of DOA number EASA.21J.174

Introduction

This Multi Model list (MML) specifies the aircraft types included on major change HL/MOD/1259.

Note: This list is based on the EASA Product list – small aeroplanes dated 7 November 2016 and is limited to aircraft that are certified for single-crew operation.

TC Holder	Type Description	Model	TCDS Number
AIRCRAFT DESIGN & CERTIF.	D4 Fascination	D4 Fascination	EASA.A.019
AERO AT SP. Z.O.O.	AT-3 Series	AT-3 R100	EASA.A.021
AERO VODOCHODY AEROSPACE A.S.	Ae 270	Ae 270	EASA.A.060
AERODIF	Cap 20 and 230 Series	CAP20	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP20L/S200	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP21	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP230	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP231	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP231EX	EASA.A.369
AERODIF	Cap 20 and 230 Series	CAP232	EASA.A.369
AERODIF	CAP10	CAP10	EASA.A.370
AERODIF	CAP10	CAP10B	EASA.A.370
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-600 (Aerostar 600)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-601 (Aerostar 601)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-601P (Aerostar 601P)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-602P (Aerostar 602P)	US A17WE
AEROSTAR AIRCRAFT CORPORATION	PA-60 (Aerostar)	PA-60-700P (Aerostar 700P)	US A17WE
AEROSTRUKTUR FASERVERBUNDTECH.	H 40	H 40	DE 1083
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 207	Bölkow 207	DE 643
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 207	Bölkow 207T	DE 643
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 208	Bölkow BO 208 C Junior	DE 644
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 208	Bölkow Junior	DE 644
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 209	BO 209 Monsun	DE 680
AIRBUS DEFENCE AND SPACE GMBH	Bölkow BO 209	BO 209 S	DE 680
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 A 1	DE 679
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 K 1	DE 679
AIRBUS DEFENCE AND SPACE GMBH	SIAT 223	223 V	DE 679
AIRCRAFT INDUSTRIES, A.S.	L-200	L-200 A	EASA.A.043
AIRCRAFT INDUSTRIES, A.S.	L-200	L-200 D	EASA.A.043
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 M Turbolet	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 UVP-E	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E20	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E20 CARGO	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E9	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-E-LW	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L 410 UVP-LW	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-410 UVP - Turbolet	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	L-410	L-420	EASA.A.026
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37-2	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37A	EASA.A.445
AIRCRAFT INDUSTRIES, A.S.	Z-37 - Series	Z-37A-2	EASA.A.445

AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-250	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-300	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-301	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-302	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-400	US A9SW
AIR TRACTOR, INC.	AT-200, -300, -400 Series	AT-400A	US A9SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-401B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-402B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-501	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502A	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-502B	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-503	US A17SW
AIR TRACTOR, INC.	AT-401, -402, -500 Series	AT-503A	US A17SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-602	US A19SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-802	US 19SW
AIR TRACTOR, INC.	AT-600, -800 Series	AT-802A	US 19SW
ALENIA AERMACCHI S.P.A.	F260	F260	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260B	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260C	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260D	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260E	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	F260F	EASA.A.586
ALENIA AERMACCHI S.P.A.	F260	SF260TP	EASA.A.586
ALENIA AERMACCHI S.P.A.	S205/S208	S205-18/F	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-18/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-20/F	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-20/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S205-22/R	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S208	EASA.A.587
ALENIA AERMACCHI S.P.A.	S205/S208	S208A	EASA.A.587
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-30	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-31	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17 Series	17-31TC	US 1A3
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-30A	US A18CE
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-31A	US A18CE
ALEXANDRIA AIRCRAFT, LLC	Bellanca 17-30A Series	17-31ATC	US A18CE
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164A	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B with 73"	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-15T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-20T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164B-34T	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164C	US 1A16

ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164D	US 1A16
ALLIED AG CAT PRODUCTIONS	G-164 Series	G-164D with 73" wing gap	US 1A16
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-54 "PERKOZ"	SZD-54-2 "PERKOZ"	EASA.A.574
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-100	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-100 S	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-120	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-120 B	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	HR 200-160	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2100	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2100A	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2112	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2120U	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160D	EASA.IM.A.086
ALPHA AVIATION CONCEPT LIMITED	HR200 and R2000 series	R 2160i	EASA.IM.A.086
AMERICAN CHAMPION AIRCRAFT	Bellanca and Champion	8GCBC	US A21CE
AMERICAN CHAMPION AIRCRAFT	Bellanca and Champion	8KCAB	US A21CE
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7ECA	US A-759
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCAA	US A-759
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCBC (160HP)	US A-759
AMERICAN CHAMPION AIRCRAFT	Bellanca, Champion and Aeronca	7GCBC (180HP)	US A-759
AQUILA AVIATION GMBH	AQUILA AT01	AQUILA AT01	EASA.A.527
AQUILA AVIATION GMBH	AQUILA AT01	AQUILA AT01-100	EASA.A.527
ASI AVIATION S.A.S.	F 406	F 406	EASA.A.109
AVIAT AIRCRAFT INC	Husky A-1	A-1	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1A	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1B	EASA.IM.A.294
AVIAT AIRCRAFT INC	Husky A-1	A-1C-180	EASA.IM.A.294
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-1S	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2A	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2B	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2C	US A8SO
AVIAT AIRCRAFT INC	Pitts S-1/-2	S-2S	US A8SO
BEECHCRAFT CORPORATION	58	58P	US A23CE
BEECHCRAFT CORPORATION	58	58PA	US A23CE
BEECHCRAFT CORPORATION	58	58TC	US A23CE
BEECHCRAFT CORPORATION	58	58TCA	US A23CE
BEECHCRAFT CORPORATION	60	60	US A12CE
BEECHCRAFT CORPORATION	60	A60	US A12CE
BEECHCRAFT CORPORATION	60	B60	US A12CE
BEECHCRAFT CORPORATION	390	390 (Premier I)	EASA.IM.A.073
BEECHCRAFT CORPORATION	390	390 (Premier IA)	EASA.IM.A.073
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	36	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-A33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-B33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-C33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	35-C33A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	A36	US 3A15

BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	A36TC	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	B36TC	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	E33C	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	F33C	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	G33	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	G36	EASA.IM.A.279
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	H35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	J35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	K35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	M35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	N35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	P35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	S35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35A	US 3A15
BEECHCRAFT CORPORATION	33, 35, 36 (Bonanza)	V35B	US 3A15
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	B50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	C50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50A	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50B	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50C	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50E	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	D50E-5990	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	E50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	F50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	G50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	H50	US 5A4
BEECHCRAFT CORPORATION	50 (Twin Bonanza)	J50	US 5A4
BEECHCRAFT CORPORATION	55, 56, 58, 95	58	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	56TC	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	58A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-A55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-B55B	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-C55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	95-C55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	A56TC	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	B95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	B95A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	D55	US 3A16

BEECHCRAFT CORPORATION	55, 56, 58, 95	D55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	D95A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E55	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E55A	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	E95	US 3A16
BEECHCRAFT CORPORATION	55, 56, 58, 95	G58	EASA.IM.A.280
BEECHCRAFT CORPORATION	65, 70, 90	65	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	70	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-88	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A80-8800	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-1	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-2	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-3	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-A90-4	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	65-B80	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	A65	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	A65-8200	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	B90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	C90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	C90A	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	C90GT	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	C90GTi	EASA.IM.A.503
BEECHCRAFT CORPORATION	65, 70, 90	E90	US 3A20
BEECHCRAFT CORPORATION	65, 70, 90	H90	US 3A20
BEECHCRAFT CORPORATION	76 (Duchess)	76	US A29CE
BEECHCRAFT CORPORATION	77 (Skipper)	77	US A30CE
BEECHCRAFT CORPORATION	99 and 100 Series	99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	100	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	99A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A100	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A100A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	A99A	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	B100	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	B99	US A14CE
BEECHCRAFT CORPORATION	99 and 100 Series	C99	US A14CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	300	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	1900D	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	200T	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	300LW	US A24CE

BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A100-1	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200C	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	A200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200C	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200CGT	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200CT	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200GT	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B200T	US A24CE
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B300	EASA.IM.A.277
BEECHCRAFT CORPORATION	A100, 200, 300, 1900	B300C	EASA.IM.A.277
BEECHCRAFT CORPORATION	F90 (King Air)	F90	US A31CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	19A	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23-19	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23-24	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A23A	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A24	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	A24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B19	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	B24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	C23	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	C24R	US A1CE
BEECHCRAFT CORPORATION	Hawker Beechcraft 19, 23, 24	M19A	US A1CE
Bernd HAGER / Anatoli STOBBE GbR	Ruschmeyer R 90	R 90-230RG	EASA.A.539
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-20	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-21	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-26	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-27	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-8	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2A-9	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-20	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-21	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-26	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2B-27	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T-4R	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2 Islander Series Aircraft	BN2T-4S	EASA.A.388
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-1	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-2	UK BA6
BRITTEN-NORMAN AIRCRAFT LTD.	BN2A Mark III Trislander	BN.2A Mk.III-3	UK BA6
CEAPR	ATL	ATL	EASA.A.374
CEAPR	ATL	ATL L	EASA.A.374
CEAPR	ATL	ATL S	EASA.A.374
CEAPR	DR 200 Series	DR 200	EASA.A.510

CEAPR	DR 200 Series	DR 250	EASA.A.551
CEAPR	DR 200 Series	DR 250-160	EASA.A.510
CEAPR	DR 200 Series	DR 250B	EASA.A.510
CEAPR	DR 200 Series	DR 250B-160	EASA.A.510
CEAPR	DR 220/221	DR 220	EASA.A.551
CEAPR	DR 220/221	DR 220 A	EASA.A.551
CEAPR	DR 220/221	DR 220 AB	EASA.A.551
CEAPR	DR 220/221	DR 220 B	EASA.A.551
CEAPR	DR 220/221	DR 221	EASA.A.551
CEAPR	DR 220/221	DR 221 B	EASA.A.551
CEAPR	DR 253 Series	DR 253	EASA.A.552
CEAPR	DR 253 Series	DR 253 B	EASA.A.552
CEAPR	DR 300/400	DR 300/108	EASA.A.367
CEAPR	DR 300/400	DR 300/120	EASA.A.367
CEAPR	DR 300/400	DR 300/125	EASA.A.367
CEAPR	DR 300/400	DR 300/140	EASA.A.367
CEAPR	DR 300/400	DR 300/180 R	EASA.A.367
CEAPR	DR 300/400	DR 315	EASA.A.367
CEAPR	DR 300/400	DR 340	EASA.A.367
CEAPR	DR 300/400	DR 360	EASA.A.367
CEAPR	DR 300/400	DR 380	EASA.A.367
CEAPR	DR 300/400	DR 400/100	EASA.A.367
CEAPR	DR 300/400	DR 400/120	EASA.A.367
CEAPR	DR 300/400	DR 400/120 A	EASA.A.367
CEAPR	DR 300/400	DR 400/120 D	EASA.A.367
CEAPR	DR 300/400	DR 400/125	EASA.A.367
CEAPR	DR 300/400	DR 400/125 i	EASA.A.367
CEAPR	DR 300/400	DR 400/140	EASA.A.367
CEAPR	DR 300/400	DR 400/140 B	EASA.A.367
CEAPR	DR 300/400	DR 400/160	EASA.A.367
CEAPR	DR 300/400	DR 400/160 D	EASA.A.367
CEAPR	DR 300/400	DR 400/180	EASA.A.367
CEAPR	DR 300/400	DR 400/180 R	EASA.A.367
CEAPR	DR 300/400	DR 400/180 S	EASA.A.367
CEAPR	DR 300/400	DR 400/2+2	EASA.A.367
CEAPR	DR 300/400	DR 400/200 R	EASA.A.367
CEAPR	DR 300/400	DR 400/500	EASA.A.367
CEAPR	DR 300/400	DR 400/NGL	EASA.A.367
CEAPR	DR 300/400	DR 400/RP	EASA.A.367
CEAPR	HR 100/R 1000 Series	HR 100-200	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-200 B	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-200 D	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-210	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-210D	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-250 TR	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-285 C	EASA.A.368
CEAPR	HR 100/R 1000 Series	HR 100-285 TIARA	EASA.A.368
CEAPR	HR 100/R 1000 Series	R 1180 T	EASA.A.368
CEAPR	HR 100/R 1000 Series	R 1180 TD	EASA.A.368

CEAPR	R 3000	R 3000/100	EASA.A.372
CEAPR	R 3000	R 3000/120	EASA.A.372
CEAPR	R 3000	R 3000/120 D	EASA.A.372
CEAPR	R 3000	R 3000/140	EASA.A.372
CEAPR	R 3000	R 3000/160	EASA.A.372
CEAPR	R 3000	R 3000/160 S	EASA.A.372
CEAPR	R 3000	R 3000/180	EASA.A.372
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	152	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150A	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150B	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150C	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150D	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150E	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150F	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150G	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150H	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150J	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150K	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150L	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	150M	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150K	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150L	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A150M	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 150 Series	A152	US 3A19
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172A	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172B	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172C	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172D	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172E	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172F	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172G	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172H	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172I	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172K	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172L	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172M	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172N	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172P	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172Q	US 3A12
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172R	EASA.IM.A.051
CESSNA AIRCRAFT COMPANY	Cessna 172 Series	172S	EASA.IM.A.051
CESSNA AIRCRAFT COMPANY	Cessna 172RG	172RG	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175A	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175B	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	175C	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	P172D	US 3A17

CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172E	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172F	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172G	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172H	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172J	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 175, R172 Series	R172K	US 3A17
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177A	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 Fixed UC Series	177B	US A13CE
CESSNA AIRCRAFT COMPANY	Cessna 177 RG Series	177RG	US A20CE
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180A	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180B	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180C	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180D	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180E	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180F	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180G	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180H	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180J	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 180 Series	180K	US 5A6
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182A	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182B	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182C	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182D	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182E	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182F	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182G	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182H	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182J	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182K	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182L	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182M	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182N	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182P	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182Q	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182R	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182S	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	182T	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	R182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	T182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	T182T	EASA.IM.A.052
CESSNA AIRCRAFT COMPANY	Cessna 182 Series	TR182	US 3A13
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185A	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185B	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185C	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185D	US 3A24

CESSNA AIRCRAFT COMPANY	Cessna 185 Series	185E	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	A185E	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 185 Series	A185F	US 3A24
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188A	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	188B	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188A	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	A188B	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 188 Series	T188C	US A9CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	206H	EASA.IM.A.053
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	P206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	T206H	EASA.IM.A.053
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TP206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206F	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	TU206G	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206A	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206B	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206C	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206D	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206E	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206F	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 206 Series	U206G	US A4CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	207	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	207A	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	T207	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 207 Series	T207A	US A16CE
CESSNA AIRCRAFT COMPANY	Cessna 208 Series	208	EASA.IM.A.226
CESSNA AIRCRAFT COMPANY	Cessna 208 Series	208B	EASA.IM.A.226
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210-5 (205)	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210-5A (205A)	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210A	US 3A21

CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210B	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210C	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210D	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210E	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210F	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210G	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210H	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210J	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210K	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210L	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210M	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	P210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	P210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210F	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210G	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210H	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210J	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210K	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210L	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210M	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210N	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 210 Series	T210R	US 3A21
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310A	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310B	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310C	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310D	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310E	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310F	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310G	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310H	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310I	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310J	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310J-1	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310K	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310L	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310N	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310P	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310Q	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	310R	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	E310H	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	E310J	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310P	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310Q	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 310 Series	T310R	US 3A10
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	335	US 3A25

CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	340	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320-1	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320A	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320B	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320C	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320D	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320E	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	320F	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 320-, 340- Series	340A	US 3A25
CESSNA AIRCRAFT COMPANY	Cessna 321	321	US 3A11
CESSNA AIRCRAFT COMPANY	Cessna 336	336	US A2CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337A	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337C	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337D	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337E	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337F	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337G	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	M337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	P337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337B	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337C	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337D	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337E	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337F	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337G	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337H	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 337 Series	T337H-SP	US A6CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	401B	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402B	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	402C	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	411	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	411A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	414	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	414A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421A	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421B	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	421C	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 400 Series	425	US A7CE
CESSNA AIRCRAFT COMPANY	Cessna 404/406	404	US A25CE
CESSNA AIRCRAFT COMPANY	Cessna 441	441	US A28CE
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150F	US A13EU

CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150G	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150H	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150J	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150K	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	F152	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150K	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FA152	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FRA150L	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F150/F152 Series	FRA150M	US A13EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172D	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172E	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172F	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172G	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172H	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172K	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172L	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172M	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172N	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	F172P	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F172 Series	FP172D	US A4EU
CESSNA AIRCRAFT COMPANY	Cessna F177RG	F177RG	US A26EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	F182P	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	F182Q	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F182 Series	FR182	US A42EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337E	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337F	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337G	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	F337H	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337E	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337F	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337GP	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna F337 Series	FT337HP	US A23EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172E	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172F	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172G	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172H	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172J	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna FR172 Series	FR172K	US A18EU
CESSNA AIRCRAFT COMPANY	Cessna T303	T303	US A34CE
CESSNA AIRCRAFT COMPANY	Corvalis	LC40-550FG	EASA.IM.A.516
CESSNA AIRCRAFT COMPANY	Corvalis	LC41-550FG	EASA.IM.A.516
CESSNA AIRCRAFT COMPANY	Corvalis	LC42-550FG	EASA.IM.A.516
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR20	EASA.IM.A.007
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR22	EASA.IM.A.007
CIRRUS DESIGN CORPORATION	Cirrus SR-20, SR-22	SR22T	EASA.IM.A.007

COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112B	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112TC	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	112TCA	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114A	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114B	US A12SO
COMMANDER AIRCRAFT CORPORATION	Commander 112/114 Series	114TC	US A12SO
COSTRUZIONI AERO. TECNAM	P2002	P2002-JF	EASA.A.006
COSTRUZIONI AERO. TECNAM	P2002	P2002-JR	EASA.A.006
COSTRUZIONI AERO. TECNAM	P2006T	P2006T	EASA.A.185
COSTRUZIONI AERO. TECNAM	P2008 JC	P2008 JC	EASA.A.583
COSTRUZIONI AERO. TECNAM	P2010	P2010	EASA.A.676
COSTRUZIONI AERO. TECNAM	Tecnam P92	P92-J	EASA.A.412
COSTRUZIONI AERO. TECNAM	Tecnam P92	P92-JS	EASA.A.412
CZECH SPORT AIRCRAFT A.S.	PS-28 Cruiser	PS-28 Cruiser	EASA.A.546
DIAMOND AIRCRAFT IND. INC	DA20	DA20-A1	EASA.IM.A.223
DIAMOND AIRCRAFT IND. INC	DA20	DA20-C1	EASA.IM.A.223
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 D	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 F	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 40	DA 40 NG	EASA.A.022
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 M	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 M-NG	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42	DA 42 NG	EASA.A.005
DIAMOND AIRCRAFT INDUSTRIES	DA 42 M (Restricted)	DA 42 M-NG (Restricted)	EASA.A.513
DIAMOND AIRCRAFT INDUSTRIES	DA 42 M (Restricted)	DA 42 M (Restricted)	EASA.A.513
DIAMOND AIRCRAFT INDUSTRIES	DV 20	DV 20	EASA.A.439
DYNAC AEROSPACE CORPORATION	Aero Commander	Aero Commander 100	US 1A21
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 32	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 32A	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 35	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 35A	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104 Wilga 80	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104M Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MA Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MF Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-104 Wilga Series	PZL-104MN Wilga 2000	EASA.A.061
EADS PZL WARSZAWA-OKECIE S.A.	PZL-106 BT TURBO KRUK Series	PZL-106 BT-601 TURBO KRUK	EASA.A.444
EADS PZL WARSZAWA-OKECIE S.A.	PZL-106 BT TURBO KRUK Series	PZL-106 BTU-34 TURBO KRUK	EASA.A.444
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-110 KOLIBER	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 150	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 150A	EASA.A.091
EADS PZL WARSZAWA-OKECIE S.A.	PZL-KOLIBER Series	PZL-KOLIBER 160A	EASA.A.091
ECLIPSE AEROSPACE INCORPORATED	EA500	EA500	EASA.IM.A.171
E.I.S. AIRCRAFT GMBH	RS 180	RS 180	DE 1014
EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110K1	BR EA-7202

EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110P1	BR EA-7202
EMBRAER S.A.	EMB-110 (Bandeirante)	EMB-110P2	BR EA-7202
EMBRAER S.A.	EMB-121	EMB-121A	BR EA-7905
EMBRAER S.A.	EMB-121	EMB-121A1	BR EA-7905
EVEKTOR, SPOL. S R.O.	EV-97 VLA	EV-97 VLA	EASA.A.029
EVEKTOR, SPOL. S R.O.	SportStar RTC	SportStar RTC	EASA.A.592
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/200	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/L	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/LC	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/LT	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/S	EASA.A.362
EXTRA FLUGZEUGPRODUKTIONS-	EA 300	EA 300/SC	EASA.A.362
FLIGHT - DESIGN - GmbH FLUGSPO	CT	CTLS-ELA	EASA.A.537
FOURNIER, RENE	RF 47	RF 47	FR TCDS 187
FOURNIER, RENE	RF.6.B.	RF.6.B. 100	FR TCDS 149
FOURNIER, RENE	RF.6.B.	RF.6.B. 120	FR TCDS 149
FOURNIER, RENE	RF.6.B.	RF.6.B. 90	FR TCDS 149
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-160	JP 20-10
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-180	JP 22-6
FUJI HEAVY INDUSTRIES LTD.	FA-200	FA-200-180AO	JP 22-6
GA8 AIRVAN PTY. LTD.	GA8-Series	GA8	EASA.IM.A.042
GA8 AIRVAN PTY. LTD.	GA8-Series	GA8-TC 320	EASA.IM.A.042
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/15	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/15-1	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A1	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A2	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A3	EASA.A.591
GOMOLZIG FLUGZEUG- UND MASCHINENBAU	AS202 - Series	AS202/18A4	EASA.A.591
GROB AIRCRAFT AG	G 120	G 120A	EASA.A.075
GROB AIRCRAFT AG	G 120	G 120A-I	EASA.A.075
GROB AIRCRAFT AG	G 120TP	G 120TP-A	EASA.A.565
GROB AIRCRAFT AG	G520 EGRETT	G520 EGRETT	DE 2066
GROB AIRCRAFT AG	G520 EGRETT	G520T	DE 2066
GROB AIRCRAFT AG	Grob G 115	G 115	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115A	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115B	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115C	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115C2	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115D	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115D2	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115E	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115EG	EASA.A.364
GROB AIRCRAFT AG	Grob G 115	G 115TA	EASA.A.364
INSTYTUT LOTNICTWA	I-23	I-23 "Manager"	EASA.A.200

INTERCEPTOR AVIATION INC.	200	200D	US 3A18
ISSOIRE AVIATION	APM 20 and APM 30 Series	APM 20	EASA.A.306
ISSOIRE AVIATION	APM 20 and APM 30 Series	APM 30	EASA.A.306
ISSOIRE AVIATION	APM40	APM40	EASA.A.567
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25	AR AV-0004/US 2A8
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25-235	AR AV-0004/US 2A8
LAVIA ARGENTINA SA (LAVIASA)	PA-25 (Pawnee)	PA-25-260	AR AV-0004/US 2A8
LIBERTY AEROSPACE INC.	Liberty XL-2	XL-2	EASA.IM.A.343
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA226-TC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-AC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-BC	US A8SW
M7 AEROSPACE L.L.C.	SA226, SA227 (A8SW)	SA227-PC	US A8SW
M7 AEROSPACE L.L.C.	SA227 (A18SW)	SA227-CC	US A18SW
M7 AEROSPACE L.L.C.	SA227 (A18SW)	SA227-DC	US A18SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-T	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA226-T(B)	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA227-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA227-TT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA26-AT	US A5SW
M7 AEROSPACE L.L.C.	SA26, SA226/SA227 (A5SW)	SA26-T	US A5SW
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TC	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCN	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCNS	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 650 TCS	EASA.A.079
MAGNAGHI AERONAUTICA S.P.A.	Sky Arrow	Sky Arrow 710 RG	EASA.A.079
MAULE AEROSPACE TECHNOLOGY	Maule	Bee Dee M-4	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-180V	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-210	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-210C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4-220S	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4S	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-4T	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-180C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-210C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-5-235C	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-6-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	M-7-235B	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MT-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180A	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180B	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-180C	EASA.IM.A.018

MAULE AEROSPACE TECHNOLOGY	Maule	MX-7-235	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-160	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-180	EASA.IM.A.018
MAULE AEROSPACE TECHNOLOGY	Maule	MXT-7-180A	EASA.IM.A.018
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-20	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-25	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-26	JP 19
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-30	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-35	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2	MU-2B-36	JP 25
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-10 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-20 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-25 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-26 (USA)	US A2PC
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-26A (USA)	US A10SW
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-36A (USA)	US A10SW
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-40 (USA)	US A10SW
MITSUBISHI HEAVY INDUSTRIES	MU-2 (USA)	MU-2B-60 (USA)	US A10SW
MOONEY AVIATION COMPANY, INC.	M20	M20	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20A	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20B	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20C	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20D	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20E	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20F	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20G	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20J	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20K	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20L	US 2A3
MOONEY AVIATION COMPANY, INC.	M20	M20M	EASA.IM.A.266
MOONEY AVIATION COMPANY, INC.	M20	M20R	EASA.IM.A.266
MOONEY AVIATION COMPANY, INC.	M20	M20S	US 2A3
MOONEY AVIATION COMPANY, INC.	M22	M22	US A6SW
NOMAD TC PTY LTD	N22	N22	AU 73-1
NOMAD TC PTY LTD	N22	N22B	AU 73-1
NOMAD TC PTY LTD	N22	N22C	AU 73-1
NOMAD TC PTY LTD	N22	N22S	AU 73-1
NOMAD TC PTY LTD	N24	N24	AU 73-1
NOMAD TC PTY LTD	N24	N24A	AU 73-1
OMA SUD SKY TECHNOLOGIES SPA	SKYCAR	SKYCAR	EASA.A.563
PACIFIC AEROSPACE LTD.	PAC 750XL	750XL	EASA.IM.A.081
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 B	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 C	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 DL3	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 DP1	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.166	P.166 S	EASA.A.384
PIAGGIO AERO INDUSTRIES S.P.A.	P.180	Avanti	EASA.A.059

PIAGGIO AERO INDUSTRIES S.P.A.	P.180	Avanti II	EASA.A.059
PILATUS AIRCRAFT LTD.	PC-12	PC-12	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/45	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/47	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-12	PC-12/47E	EASA.A.089
PILATUS AIRCRAFT LTD.	PC-6	PC-6	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/350-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A2-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/A-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B2-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B2-H4	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/B-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/C1-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6/C-H2	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6-H1	CH F 56-10
PILATUS AIRCRAFT LTD.	PC-6	PC-6-H2	CH F 56-10
PIPER AIRCRAFT, INC.	PA-23	PA-23-235	US 1A10
PIPER AIRCRAFT, INC.	PA-23	PA-23-250	US 1A10
PIPER AIRCRAFT, INC.	PA-23	PA-E23-250	US 1A10
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-250	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-260	US 1A15
PIPER AIRCRAFT, INC.	PA-24 (Comanche)	PA-24-400	US 1A15
PIPER AIRCRAFT, INC.	PA-28	PA-28-140 (Cherokee Cruiser)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-150 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-151 (Cherokee Warrior)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-160 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161 (Warrior II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-161 (Warrior III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-180 (Archer)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-180 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-181 (Archer II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-181 (Archer III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-201T (Turbo Dakota)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-235 (Cher.Pathfinder)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28-236 (Dakota)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-180 (Arrow)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-200 (Arrow)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-200 (Arrow II)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-201 (Arrow III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28R-201T (Turbo Arrow III)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28RT-201 (Arrow IV)	US 2A13

PIPER AIRCRAFT, INC.	PA-28	PA-28RT-201T (Turbo Arrow IV)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28S-160 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-28	PA-28S-180 (Cherokee)	US 2A13
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-30	US A1EA
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-39	US A1EA
PIPER AIRCRAFT, INC.	PA-30, PA-39, PA-40	PA-40	US A1EA
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-300	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-325	US A20SO
PIPER AIRCRAFT, INC.	PA-31 (Navajo)	PA-31-350 (Chieftain)	US A20SO
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31P-350 (Mojave)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31P (Pressurized Navajo)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T1 (Chey. I/Cheyenne IA)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T2 (Cheyenne IIXL)	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T3	US A8EA
PIPER AIRCRAFT, INC.	PA-31P, PA-31T	PA-31T (Cheyenne/Cheyenne II)	US A8EA
PIPER AIRCRAFT, INC.	PA-32	PA-32-260 (Cherokee Six 260)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-300 (Cherokee Six 300)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301FT (Piper 6X)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32-301 (Saratoga)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301T (Saratoga II TC)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32-301T (Turbo Saratoga)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32-301XTC (Piper 6XT)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32R-300 (Lance)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301 (Saratoga II HP)	EASA.IM.A.239
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301 (Saratoga SP)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301T (Saratoga II TC)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32R-301T (Turbo SaratogaSP)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32RT-300 (Lance II)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32RT-300T (Turbo Lance II)	US A3SO
PIPER AIRCRAFT, INC.	PA-32	PA-32S-300 (Cher.Six Seaplane)	US A3SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-200 (Seneca)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-200T (Seneca II)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca III)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca IV)	US A7SO
PIPER AIRCRAFT, INC.	PA-34	PA-34-220T (Seneca V)	EASA.IM.A.090
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-285 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-300 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Normal category)	PA-36-375 (Normal category)	US A9SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-285 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-300 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-36 (Restricted category)	PA-36-375 (Restricted)	US A10SO
PIPER AIRCRAFT, INC.	PA-38	PA-38-112	US A18SO
PIPER AIRCRAFT, INC.	PA-42	PA-42-1000 (Cheyenne 400LS)	US A23SO
PIPER AIRCRAFT, INC.	PA-42	PA-42-720 (Cheyenne IIIA)	US A23SO
PIPER AIRCRAFT, INC.	PA-42-720R	PA-42-720R	US A32SO
PIPER AIRCRAFT, INC.	PA-42	PA-42 (Cheyenne III)	US A23SO

PIPER AIRCRAFT, INC.	PA-44	PA-44-180 (Seminole)	EASA.IM.A.232
PIPER AIRCRAFT, INC.	PA-44	PA-44-180T (Turbo Seminole)	EASA.IM.A.232
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-310P	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-350P (Mirage)	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46-500TP (Meridian)	EASA.IM.A.077
PIPER AIRCRAFT, INC.	PA-46 (Malibu)	PA-46R-350T (Matrix)	EASA.IM.A.077
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18A	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18AS	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18B	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M18	PZL M18BS	EASA.A.056
POLSKIE ZAKLADY LOTNICZE SP.	PZL M26	PZL M26 01	EASA.A.057
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 00	EASA.A.058
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 02	EASA.A.058
POLSKIE ZAKLADY LOTNICZE SP.	PZL M28	PZL M28 05	EASA.A.058
REVO, INC.	Lake Aircraft	LA-4-200	US 1A13
REVO, INC.	Lake Aircraft	LA-4A	US 1A13
REVO, INC.	Lake Aircraft	LA-4P	US 1A13
REVO, INC.	Lake Aircraft	Lake 250	US 1A13
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 A-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 A-1[R]	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 B-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-1	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-2	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Do 28 D-6	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DO 28 Series	Dornier 128-6	EASA.A.360
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-100	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-101	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-200	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-201	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-202	EASA.A.359
RUAG AEROSPACE SERVICES GMBH	DORNIER 228 Series	Dornier 228-212	EASA.A.359
S.C. CONSTRUCTII AERONAUTICE	IAR-46 / -46S	IAR-46	EASA.A.113
S.C. CONSTRUCTII AERONAUTICE	IAR-46 / -46S	IAR-46S	EASA.A.113
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 A	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 A1	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 B	EASA.A.579
SCHEIBE AIRCRAFT GMBH	SF 23 "Sperling"	SF 23 C	EASA.A.579
SEASTAR CORP.	TSC-1	TSC-1A	US A15EA
SEASTAR CORP.	TSC-1	TSC-1A1	US A15EA
SEASTAR CORP.	TSC-1	TSC-1A2	US A15EA
SHORT BROTHERS PLC	SC7 "Skyvan"	SC7 Series 3A	UK AAN9877
SHORT BROTHERS PLC	SD3	SD3-30	UK BA 11
SHORT BROTHERS PLC	SD3	SD3-60	UK BA 11
SHORT BROTHERS PLC	SD3	SD3-60 Sherpa	UK BA 11
SHORT BROTHERS PLC	SD3	SD3 Sherpa	UK BA 11
SKYFOX AVIATION	CA-25	CA25	AU 154-2

SKYFOX AVIATION	CA-25	CA25N	AU 154-2
SLINGSBY ADVANCED COMPOSITES	T67	T67A	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67B Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67C Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M200 Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M260 Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M260-T3A Firefly	EASA.A.390
SLINGSBY ADVANCED COMPOSITES	T67	T67M-MKII Firefly	EASA.A.390
SOCATA	GA7	GA7	FR TCDS 190
SOCATA	MS 880 and Rallye 100 Series	MS 880 B	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 880 B-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 881	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 883	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 884	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 885	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 886	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	MS 887	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 S	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 S-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 100 ST-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 110 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 ST	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 ST-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 SV	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 SVS	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 T	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 150 T-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 T	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 T-D	EASA.A.377
SOCATA	MS 880 and Rallye 100 Series	Rallye 180 TS	EASA.A.377
SOCATA	MS 890 and Rallye 235 Series	MS 890 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 890 B	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 A.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 B.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 E.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 892 E-D.150	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 B	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 893 E-D	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 C	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	MS 894 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 A	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 C	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 E	EASA.A.379
SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 E-D	EASA.A.379

SOCATA	MS 890 and Rallye 235 Series	RALLYE 235 F	EASA.A.379
SOCATA	TBM700	TBM700 A	EASA.A.010
SOCATA	TBM700	TBM700 B	EASA.A.010
SOCATA	TBM700	TBM700 C1	EASA.A.010
SOCATA	TBM700	TBM700 C2	EASA.A.010
SOCATA	TBM700	TBM700 N	EASA.A.010
SOCATA	TB Series	TB 10	EASA.A.378
SOCATA	TB Series	TB 20	EASA.A.378
SOCATA	TB Series	TB 200	EASA.A.378
SOCATA	TB Series	TB 21	EASA.A.378
SOCATA	TB Series	TB 9	EASA.A.378
SST FLUGTECHNIK GmbH	EA 400	EA 400	EASA.A.011
SST FLUGTECHNIK GmbH	EA 400	EA 400-500	EASA.A.011
STEMME GMBH AND CO KG	ASP	ASP S15-1	EASA.A.612
SYMPHONY AIRCRAFT INDUSTRIES	OMF-100	OMF-100-160	EASA.IM.A.031
TAYLORCRAFT AVIATION LLC	F19, F21, F22	19	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F19	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21A	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F21B	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22A	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22B	US 1A9
TAYLORCRAFT AVIATION LLC	F19, F21, F22	F22C	US 1A9
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	600 S-2D	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S-2R	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-R1340	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-R3S	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Normal)	S2R-T11	US A3SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G1	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G10	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G5	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-G6	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-H80	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2RHG-T34	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2RHG-T65	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-R1820	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T15	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T34	EASA.IM.A.040
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T45	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T65	US A4SW
THRUSH AIRCRAFT INC.	Thrush S2R Series (Restricted)	S2R-T660	EASA.IM.A.040
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1A	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1B	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-1	AA-1C	US A11EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5	US A16EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5A	US A16EA

TRUE FLIGHT HOLDINGS LLC	AA-5	AA-5B	US A16EA
TRUE FLIGHT HOLDINGS LLC	AA-5	AG-5B	US A16EA
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-A	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-B	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-S	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	500-U	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	520	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560-A	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 500 Series	560-E	US 6A1
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	560-F	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680E	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680F	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680FL	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680FL(P)	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680T	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680V	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	680W	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	681	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	685	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690A	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690B	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690C	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	690D	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695A	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695B	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	695	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 600 Series	720	US 2A4
TWIN COMMANDER AIRCRAFT L.L.C.	Twin Commander 700 Series	700	US A12SW
VIKING AIR LIMITED	DHC-2	DHC-2 Mk 111 (Turbo Beaver)	CA A-22
VIKING AIR LIMITED	DHC-6	DHC-6 Series 1	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 100	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 110	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 200	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 210	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 300	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 310	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 320	CA A-82
VIKING AIR LIMITED	DHC-6	DHC-6 Series 400	EASA.IM.A.575
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR 200"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR B"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64B "OSCAR B 1155"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.64 "OSCAR"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66B "OSCAR 100"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66B "OSCAR 150"	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	P.66C "CHARLIE"	EASA.A.613

VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.0	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.1	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.100L	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.150L	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P64, P66, V1	VULCANAIR V1.CL	EASA.A.613
VULCANAIR S.P.A.	VULCANAIR P.68	AP68TP-300 "Spartacus"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	AP68TP-600 "Viator"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 B "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 C	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 C-TC	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Observer"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Observer 2"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 R "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68TC "Observer"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR P.68	P.68 "Victor"	EASA.A.385
VULCANAIR S.P.A.	VULCANAIR SF600	SF600	EASA.A.608
VULCANAIR S.P.A.	VULCANAIR SF600	SF600A	EASA.A.608
WACO CLASSIC AIRCRAFT CORP.	WACO 2T	2T-1A-1	US A18EA
WACO CLASSIC AIRCRAFT CORP.	WACO 2T	2T-1A-2	US A18EA
WACO CLASSIC AIRCRAFT CORP.	YMF Series	YMF F5	EASA.IM.A.055
WACO CLASSIC AIRCRAFT CORP.	YMF Series	YMF F5C	EASA.IM.A.055
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106A	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106A m.B	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106A "Kruk"	PZL-106AR	EASA.SAS.A.057
WITHOUT TC HOLDER - ORPHANED	PZL-106AS "Kruk"	PZL-106AS	EASA.SAS.A.059
WITHOUT TC HOLDER - ORPHANED	PZL-106B "Kruk"	PZL-106BR	EASA.SAS.A.060
WITHOUT TC HOLDER - ORPHANED	PZL-106B "Kruk"	PZL-106BS	EASA.SAS.A.060
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 00	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 01	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03 (1999 kg)	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	PZL M20	PZL M20 03 (E20.100.00wing)	EASA.SAS.A.064
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-150	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-150D	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-160	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-160D	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	Gardan GY80 "Horizon"	GY80-180	EASA.SAS.A.075
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B-160	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	SC01 Speed Canard	SC01 B-160I	EASA.SAS.A.050
WITHOUT TC HOLDER - ORPHANED	FLS Sprint	Club Sprint	EASA.SAS.A.074
WITHOUT TC HOLDER - ORPHANED	FLS Sprint	Sprint 160	EASA.SAS.A.074
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 100	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 200	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	OA7 "Optica"	OA7 Series 301	EASA.SAS.A.073
WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 1	EASA.SAS.A.082

WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 2	EASA.SAS.A.082
WITHOUT TC HOLDER - ORPHANED	Beagle B121 Pup	B121 Series 3	EASA.SAS.A.082
WITHOUT TC HOLDER - ORPHANED	Decourt DMS 884-1	DMS 884-1	EASA.SAS.A.090
WITHOUT TC HOLDER - ORPHANED	CERVA CE 43	CE 43	EASA.SAS.A.047
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 A	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 B "Super IV Sancy"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 40 "SUPER IV"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 41 "Baladou"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 4/21	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	WASSMER WA 4	WA 4/21/250 "Super 4/21"	EASA.SAS.A.048
WITHOUT TC HOLDER - ORPHANED	General Avia F20	F.20 Pegaso	EASA.SAS.A.052
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22A	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22B	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22C	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	General Avia F22	F22R	EASA.SAS.A.053
WITHOUT TC HOLDER - ORPHANED	Sukhoi Su-29	Su-29	EASA.SAS.A.093
WITHOUT TC HOLDER - ORPHANED	Sukhoi Su-31	Su-31	EASA.SAS.A.094
WITHOUT TC HOLDER - ORPHANED	Yakovlev YAK-18T	YAK-18T	EASA.SAS.A.095
WITHOUT TC HOLDER - ORPHANED	SOCATA ST10	ST10 "Diplomate"	EASA.SAS.A.049
WITHOUT TC HOLDER - ORPHANED	Calif A-21	Calif A-21	EASA.SAS.A.118
WITHOUT TC HOLDER - ORPHANED	Calif A-21	Calif A-21S	EASA.SAS.A.118
WITHOUT TC HOLDER - ORPHANED	Reims-Cessna FTB337G	FTB337G	EASA.SAS.A.115
WITHOUT TC HOLDER - ORPHANED	Reims-Cessna FTB337G	FTB337GA	EASA.SAS.A.115
WITHOUT TC HOLDER - ORPHANED	Rallye 235 CA	Rallye 235 CA	EASA.SAS.A.116
WITHOUT TC HOLDER - ORPHANED	Rallye 235 CA	Rallye 235 CA-M	EASA.SAS.A.116
XTREMEAIR GMBH	XA42	XA41	EASA.A.507
XTREMEAIR GMBH	XA42	XA42	EASA.A.507
ZAKLADY LOTNICZE	EM-11 ORKA	EM-11C ORKA	EASA.A.115
ZENAIR LIMITED	Zenair	CH 2000	CA A-185
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 126	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 126 T	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 B	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 MS	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 226 T	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 326 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 A	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 AFS	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 AFS-V	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 F	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 L	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 526 M	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 726	EASA.A.353

ZLIN AIRCRAFT A.S.	ZLIN Z 26 Series	Z 726 K	EASA.A.353
ZLIN AIRCRAFT A.S.	ZLIN Z 37 T Series	Z 137 T	EASA.A.443
ZLIN AIRCRAFT A.S.	ZLIN Z 37 T Series	Z 37 T	EASA.A.443
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 142	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 142 C	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 242 L	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 42 M	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 42 Series	Z 42 MU	EASA.A.027
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 143 L	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 143 LSi	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 43 Series	Z 43	EASA.A.028
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 L	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LA	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LS	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 LX	EASA.A.108
ZLIN AIRCRAFT A.S.	ZLIN Z 50 Series	Z 50 M	EASA.A.108

Aircraft Flight Manual Supplement (AFMS)

Aircraft Flight Manual Supplement (AFMS)

Multi Model List (MML)

Aircraft Registration No:

Aircraft Serial Number:

Garmin GNS-W GPS navigation system

EASA approval reference: 10037701 Rev 3

ADDITIONAL LIMITATIONS AND INFORMATION FOR CERTIFICATION

The limitations and information contained herein either supplement
or, in the case of conflict, override those in the flight manual

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Amendment record		
Issue	Reason for Issue	DQ reference
1	Initial issue	-
2	Updated text per meeting with the CAA	11-120
3	Document updated to the GAEL template. Pilot's Guide: 190-00356-00 updated to Rev J	14-263
4	GNS-W is the RNAV primary system and TAW-B capability.	15-076
5	Updates per feedback from EASA	15-140
6	Typo correction page 5. Updated table in 1.2 for TAWS-B paragraph references.	15-153
7	Updated requirements for remote annunciation.	16-022
8	Amend second Comm and Nav/GPS requirements in 1.1. Add ADF and alternate equipment requirements in section 2.3	17-005

1 General

1.1. The aircraft is installed with a Garmin GPS, navigation/communication unit in the number one system position. A second VHF navigation or certified GPS system is installed in the number two system position. Garmin units approved within this supplement are: GNS430W, GNS430AW, GNS530W, GNS530AW, GNS530W-TAWS & GNS530AW-TAWS (hereafter referred to as the GNS-W).

GPS system status is via the annunciators built-in to the GNS-W unit, unless an MD41-14xx GPS Annunciation Unit is required due to the position of the GNS-W falling outside the 'Normal' or 'Primary Maximum' field of view. Alternatively, the aircraft may be equipped with an EFIS HSI containing the required GPS annunciators.

The GNS-W is a fully integrated panel mounted unit, which contains a VHF communications transceiver, a VOR/ILS receiver, and a Global Positioning System (GPS) and a navigation computer.

The GNS-W has Receiver Autonomous Integrity Monitoring (RAIM) to assess the integrity of Global Positioning System (GPS) signals. RAIM ensures that the available satellite geometry will allow the receiver to calculate a position within a specified protection limit:

- 4 NM for oceanic
- 2 NM for en route
- 1 NM for terminal
- 0.3 NM for non-precision approaches

The GNS-W interfaces with an E/HSI or CDI to provide desired course and cross track deviation display. The E/HSI can be used for GPS or radio navigation displays as selected by the pilot. A navigation source annunciator is located within the area containing primary flight instruments to indicate whether radio navigation or GPS information is being displayed. The GNS-W contains a navigation database of NDBs, VORs, Airports, airspace and SIDs/STARs. The database is maintained on a 28-day cycle. The GNS-W allows the pilot to create up to 20 flight plans, with up to 31 waypoints in each flight plan. The unit can store up to 1000 user waypoint locations.

The GNS-W uses a flashing “MSG” annunciator at the bottom of the screen (directly above the MSG key) to alert the pilot of any important information or warnings. While most messages are advisory in nature, warning messages may require the pilot’s intervention.

Leg sequencing is automatic within the GNS-W. For installations with electronic HSIs the course pointer is automatically slewed to the next waypoint. For installations with electro/mechanical HSIs the course pointer is changed to the next waypoint by the pilot with a prompt provided by the GNS-W. The pilot will receive a visual MSG advising of approach to a waypoint and in mechanical HSI installations, a prompt to reset the course pointer to the next leg.

The GNS-W can provide external outputs to a compatible EFIS system (Garmin G600/500, Aspen EFD1000, Sandel SN3500 etc). Where required, an MD41-14xx annunciator acts as a “repeater” for icons/ displays on the GNS-W:

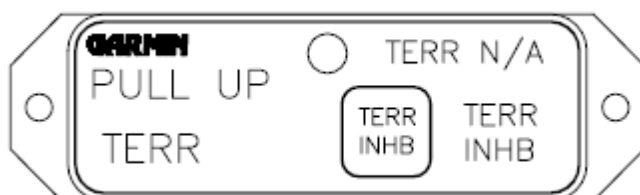
- VLOC: NAV or ILS information presented on the HSI or CDI
- GPS: GPS information presented on the HSI or CDI
- TERM: indicates aircraft is within 30 miles of departure or arrival airport
- APR: indicates the LPV or LNAV approach is active
- WPT: indicates reaching a waypoint
- MSG: indicates that GNS-W message(s) are active
- INTG: indicates GNS-W detected a position error or the GNS-W is unable to calculate the integrity of the position

1.2. GNS-W options on aircraft

The following table defines which sections of this AFMS are applicable to this installation on the aircraft:

Option	Installed or Enabled	AFMS Ref:
GNS430W / AW	<input type="checkbox"/>	Sections 1 – 10 (excluding TAWS information)
GNS530W / AW	<input type="checkbox"/>	Sections 1 – 10 (excluding TAWS information)
GNS530W TAWS / AW TAWS	<input type="checkbox"/>	Sections 1 – 10 (excluding TAWS information)
GNS530W TAWS / AW TAWS with TAWS installed	<input type="checkbox"/>	Sections 1 – 10
TAWS-B Capability	<input type="checkbox"/>	Section 1.7, Section 2.11, Section 3.2 & Section 4.2
TAWS-B remote annunciation	<input type="checkbox"/>	Section 1.7 para 3
Autopilot capable of coupled LPV approach	<input type="checkbox"/>	Section 2.7

- 1.3. The GPS receiver meets the performance requirements of ETSO C146a (en route, terminal, and approach).
- 1.4. Navigation is accomplished using the WGS-84 (NAD-83) coordinate reference datum. Navigation data is based upon use of only the Global Positioning System (GPS) operated by the United States of America.
- 1.5. Pilot's Guide for GNS400W: 190-00356-00 Rev. J (or later version).
Pilot's Guide for GNS500W (including TAWS): 190-00357-00 Rev. J (or later version).
This pilot's guide must be immediately available to the flight crew whenever navigation is predicated on the use of the system. In addition to the Pilot's Guide, the appropriate Pilot's Guide Addendum and Supplements must be immediately available to the flight crew if lightning detection, Traffic Advisory System (TAS), or if primary means oceanic/remote navigation is conducted.
- 1.6 This change is does not introduce TAWS-B, however an existing GNS unit with TAWS-B installed under a pre-existing approved change can be upgraded to GNS-W unit.
- 1.7 **Installations with existing TAWS-B only:**
 1. The primary function of the TAWS-B portion of the system is to provide terrain situational awareness. TAWS-B functions are:
 - Excessive Descent Rate Alert (GPWS mode 1)
 - Negative Climb Rate After Take-off Alert (GPWS mode 3)
 - Altitude advisory aural alert message "Five-Hundred" (GPWS mode 6)
 - Premature Descent Alert (PDA)
 - Forward Looking Terrain Avoidance (FLTA)
 - Reduced Required Terrain Clearance
 - Reduced Required Obstacle Clearance
 - Imminent Terrain Impact
 - Imminent Obstacle Impact
 2. TAWS audio is routed to the direct un-switched input of each pilot's audio system.
 3. TAWS visual warnings are shown on the GNS530W-TAWS or via a dedicated annunciation control panel (if installed).



These switches are dimmed via the instrument panel lighting bus or the unit's internal photocell; the annunciation colours/ control functions are:

Indicator/ control	Colour	Function
PULL UP lamp	RED	Indicates terrain warnings
TERR lamp	AMBER	Indicates terrain cautions
TERR N/A lamp	AMBER	Indicates TAWS inoperative
TEST switch	-	Provides press-to-test function for TAWS
TERR INHB lamp/ switch	WHITE	Inhibits FLTA/PDA alerting functions when pressed

2 Limitations

- 2.1. The GNS-W shall be the primary RNAV system on this aircraft and meets the requirements of:
- EASA AMC20-5 requirements for use of the Navstar Global positioning system
 - RNAV5 requirements of EASA AMC20-4 (BRNAV)
 - PRNAV operations in accordance with JAA TGL-10
 - GPS non-precision approaches (NPA) in accordance with AMC20-27 (see 2.2 below)
 - Localizer Precision with Vertical Guidance (LPV) approaches in accordance with AMC20-28.
 - GPS primary means of navigation in oceanic and remote airspace.
- NB: This AFMS does not constitute an operational approval for any of the above.
- 2.2. The aircraft complies with the criteria of AMC20-27 for RNP approaches to LNAV/VNAV minima, with the exception that VNAV is based on SBAS/GNSS geometric altitude.
- 2.3. IFR navigation predicated upon the GPS Receiver requires that:
- a. The No.1 position GNS-W is serviceable upon dispatch of the aircraft
 - b. The second VHF navigation is serviceable upon dispatch of the aircraft
 - c. The DME is serviceable upon dispatch of the aircraft
 - d. Alternative communication systems are serviceable, e.g. the ATC transponder.
 - e. An ADF system is installed and operational when a procedure is to be flown that requires use of an NDB
 - f. A second VHF Com is installed and operational for all flights operated in notified airspace under Part CAT of EU965-2012.
- 2.4. GPS operation in oceanic and remote areas is only permitted when operation of the aircraft is limited to latitudes between 73° North and 60° South, unless magnetic variation is manually entered by the pilot.
- 2.5. Navigation predicated upon the GPS Receiver is prohibited unless the pilot verifies the data base is current or verifies each selected waypoint for accuracy by reference to current approved data.
- 2.6. Instrument approach navigation predicated upon the GPS receiver must be accomplished in accordance with approved approach procedures that are retrieved from the GPS database. Manual selection/ modification of waypoints is prohibited.
- 2.7. Autopilot-coupled instrument approaches must be flown in autopilot Approach mode (NAV mode in some systems) replicating a standard ILS approach.

- 2.8. Instrument approaches using the GPS receiver must be conducted in the GPS Approach mode (automatically selected at the final approach fix (FAF) and RAIM must be available at the FAF.
- 2.9. Use of the GPS receiver to fly approaches, not approved for GPS, is prohibited.
- 2.10. If not previously defined, the following default settings must be made in the “AUX Pages, SETUP Page, UNITS/POSITION” menu option prior to operation: refer to the pilot’s guide for procedure if necessary:
- dis, spd kt (sets navigation units to “nautical miles” and “knots”)
 - alt, vs ft fpm (sets altitude units to “feet” and “feet per minute”)
 - map datum WGS 84 (sets map datum to WGS-84, see note below)
 - posn deg-min (sets navigation grid units to decimal minutes)

NOTE: In some areas outside the United States, datum other than WGS-84 or NAD-83 may be used. If the GNS-W unit is authorized for use by the appropriate Airworthiness authority, the required geodetic datum must be set in the GNS-W prior to its use for navigation.

2.11 **Installations with existing TAWS-B only:**

Navigation must not be predicated upon with the use of the TAWS.

NOTE: The terrain display is intended to serve as a situational awareness tool only. It may not provide either the accuracy or fidelity, or both, on which to solely base decisions and plan manoeuvres to avoid terrain or obstacles.

To avoid giving unwanted alerts, the TAWS must be inhibited when landing at an airport that is not included in the airport database.

Pilots are authorized to deviate from their current ATC clearance to the extent necessary to comply with terrain/obstacle warnings from TAWS.

The TAWS database has an area of coverage from North 75° Latitude to South 60° Latitude in all longitudes.

NOTE: The area of coverage may be modified, as additional terrain data sources become available.

3 Abnormal / Emergency Procedures

For detailed operating instructions, refer to the Pilot’s Guide and optional displays addendum.

- 3.1 ‘RAIM Position Warning’ message displayed or ‘Loss of Integrity - Cross Check Nav’ message displayed. Discontinue use of the GNS-W and use another suitable source of navigation.

3.2 **Installations with existing TAWS-B only:**

If a terrain awareness CAUTION occurs, take positive corrective action until the alert ceases. Stop descending or initiate either a climb or a turn, or both, as necessary, based on analysis of all available instruments and information.

If a terrain awareness WARNING occurs, immediately initiate and continue a climb that will provide maximum terrain clearance, or any similar approved vertical terrain escape manoeuvre, until all alerts cease. Only vertical manoeuvres are recommended, unless either operating in visual meteorological conditions (VMC), or the pilot determines, based on all available

information, that turning in addition to the vertical escape manoeuvre is the safest course of action, or both.

The TAWS Forward Looking Terrain Avoidance (FLTA) and Premature Descent Alerts (PDA) functions may be inhibited to stop alerting for acceptable flight conditions (such as below glide slope manoeuvres). Pilots should use discretion when inhibiting TAWS and always remember to enable the system when appropriate. Only the FLTA and PDA alerts are disabled in the inhibit mode; GPWS modes 1, 3 and 6 remain active.

4 Normal Procedures

4.1 Refer to the GNS-W's Pilot's Guide.

Particularly in installations that do not have dedicated annunciators in the primary field of view, pilots must take care to ensure that they monitor carefully the annunciator and system status messages on the front of the GNS-W unit.

4.2 Installations with existing TAWS-B only:

During power-up, check that the terrain/obstacle database versions are displayed along with a disclaimer to the pilot. At the same time, as TAWS self-test begins, check that the "TAWS System Test OK" aural messages is generated.

If the unit's navigation information is not available or invalid, utilize remaining operational navigation equipment as required. In this situation, TAWS will not be available; a white 'TER N/A' or red 'TER FAIL' annunciator will be displayed in the lower left corner of the unit's display. If "RAIM position warning" message is displayed the unit will flag and no longer provide GPS based navigational guidance. The crew should revert to the unit's VOR/ILS receiver or an alternate means of navigation other than the unit's GPS receiver. TAWS will not be available and a white 'TER N/A' status annunciator will be displayed by the unit.

If the white "TER N/A" status annunciator is displayed by the unit, the system will no longer provide TAWS alerting or display relative terrain elevations. The crew must maintain compliance with procedures that ensure minimum terrain separation.

If the red "TER FAIL" status annunciator is displayed by the unit, the system will no longer provide TAWS alerting or display relative terrain elevations. The crew must maintain compliance with procedures that ensure minimum terrain separation.

If a "TAWS has failed" message is displayed by the unit, the system will no longer provide TAWS alerting or display relative terrain elevations. The crew must maintain compliance with procedures that ensure minimum terrain separation.

5 Performance

No change from basic aircraft handbook.

6 Weight and Balance/Equipment List

Refer to revised aircraft weight and balance information provided by the installation organisation.

7 System Descriptions

Refer to the Pilot's Guide.

8 Handling, Servicing and Maintenance

Refer to ICA document, as listed on the Gama Aviation (Engineering) Limited (GAEL) Master Documents List (MDL) for this change.

9 Supplements

None.

10 Safety Information



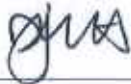
None.

This supplement is to be inserted in the aircraft Flight Manual and the record sheet amended accordingly.

EMC / RFI Checklist (EMC)

EMC/RFI Checklist (EMC)

Generic EMC Check List

	Name	Signature	Date
Compiled by	J. FLEGG		12/12/11
CVE Systems	R. PHILLIPS		12-12-2011
Approved by	D. WYATT		12-DEC-2011
The technical content of this document is approved under the authority of DOA number EASA.21J.174			

Introduction

1. The following tests are required to ensure that there is no electromagnetic compatibility (EMC) or electromagnetic interference (EMI) issues arising from the installation of the above change. The tests are to be performed during a ground run to ensure that the new equipment does not interfere with any existing aircraft systems. The tests cover:
 - Radiation from the new equipment
 - Susceptibility of the new equipment
2. All systems are to be operated in all normal modes with ramp test sets used where required. Any interference observed shall be recorded in the comments table below. (Use blank rows for any additional equipment.)
3. For each test criteria, and with the newly installed system operating, indicate a pass or fail as applicable. (If a particular test condition does not apply, indicate this with N/A.)

Date of test		Aircraft reg	
---------------------	--	---------------------	--

Radiated Compatibility Checklist			
Item	System	Test criteria	Result (P/F)
1.	Audio system	Ensure that there is no unwanted interference on the crew headsets/ cockpit speakers	
2.	VHF communications system(s)	Tune the VHF communications system from 118 MHz through 136.975 MHz in incremental steps; ensure that there is no unwanted interference. Make a test transmission to a local receiver; ensure that there is no unwanted interference	
3.	VHF navigation system(s)	Using ramp test equipment, check the receiver between 108 MHz and 117.95 MHz at 1MHz increments. Monitor the receiver for acceptable audio, no flags and valid bearing displays.	
4.	GPS receivers(s)	Check present position is correct and does not produce erroneous data	
5.	ADF system(s)	Check the receiver between 190 and 1749.5 KHz at 100 kHz intervals. Monitor the ADF receiver audio output from a known local station. Tune the ADF to a good frequency and ensure that the RMI pointer is stable	
6.	Marker receiver	Check the receiver operation at all three modulation frequencies	

Radiated Compatibility Checklist			
Item	System	Test criteria	Result (P/F)
7.	DME transceiver(s)	Check the transceiver with the DME tuned into a known frequency; monitor the DME system for acceptable audio, no flags and valid distance displays	
8.	ILS navigation system(s)	Using ramp test equipment, check the VHF receiver between 108 MHz and 117.95 MHz at 1MHz increments. Monitor the receiver for acceptable audio, no flags and valid LOC/ GS displays.	
9.	Autopilot/ flight director(s)	Carry out functional tests in accordance with the aircraft maintenance manual	
10.	Weather radar	Check test pattern in accordance with the aircraft maintenance manual	
11.	Weather mapping system(s)	Check that no spurious lightning displays are generated	
12.	Electronic flight instruments	Monitor displays, controls and outputs for correct operation	
13.	Magnetic compass	Check that there is no discernable deflection of the compass display(s) from the normal readings	
14.	Cockpit Voice Recorder	Monitor the AREA MIC using headphones; ensure that there is no unwanted interference.	
15.	Fuel quantity indicating system	Check that there is no discernable deflection of the fuel quantity display(s) from the normal readings	
16.	Engine instruments	Check that there is no discernable deflection of the instruments from their normal readings	
17.	Transponder(s)	Ensure that there is (i) no interference with the transponder display (ii) no indication of system failure	
18.	Traffic system	Perform system self-test; ensure that there is no unwanted interference with the audio output/ traffic icons	
19.	Encoding altimeters	Check for a stable output from the encoding altimeter(s) on a suitable item of equipment's maintenance page e.g. a transponder.	
20.	Radio altimeter(s)	Perform system self-test; ensure correct indications	
21.	TAWS/ EGPWS	Perform system self-test; ensure correct indications and no spurious outputs	
22.	Cabin PA system	Perform a test transmission and ensure that there is no unwanted interference	

Notes/ comments

EMI Susceptibility Checklist			
Item	System	Criteria	Result (P/F)
1.	VHF communication system(s)	Transmit test transmissions on five frequencies covering the VHF communication range and ensure no interference with new systems(s) Additional tests for GPS receivers(s) Transmit on the following frequencies: 121.150 121.175 121.200 MHz 131.250 131.275 131.300 MHz and ensure no interference with new GPS receivers(s)	
2.	DME transceiver(s)	Operate the DME using a test set and ensure no interference with the new system(s)	
3.	Weather radar	Operate the weather radar and ensure no interference with the new system(s)	
4.	Transponder(s)	Operate the transponder using a test set and ensure no interference with the new system(s)	
5.	Traffic system	Perform system self-test and ensure no interference with the new system(s)	
6.	Radio altimeter(s)	Perform system self-test and ensure no interference with the new system(s)	
7.	Cabin PA system	Key the cabin PA system and ensure no interference with the new system(s)	
8.	Strobe lighting	Switch on/off and ensure no interference with the new system(s)	
9.	Rotating beacon	Switch on/off and ensure no interference with the new system(s)	
10.	Taxi lights	Switch on/off and ensure no interference with the new system(s)	
11.	Landing lights	Switch on/off and ensure no interference with the new system(s)	
12.	Cabin lights	Switch on/off and ensure no interference with the new system(s)	
13.	Window heater(s)	Switch on/off briefly and ensure no interference with the new system(s)	
14.	Pitot heater(s)	Switch on/off briefly and ensure no interference with the new system(s)	

Notes/ comments

(Report any abnormal results to the design office using Gama Engineering Design Query Amendment Form)

Electrical Load Analysis (ELA)

Electrical Load Analysis

Generic Clamp Ammeter Test

	Name	Signature	Date
Compiled by	S. BROAD		16/04/2013
CVE Systems	A. Drummond		16/04/2013
Approved by	M. Lyon		17/04/2013
The technical content of this document is approved under the authority of DOA number EASA.21J.174			

Aircraft Type:

Aircraft Serial no:

Note: Prior to conducting this test, establish that the battery is in good condition and is fully charged. Use a clamp ammeter to measure current flows as stated below.

			TEST RESULT
1	Record battery type (manufacturer's part number):		
2	Record the type of busbar low-voltage warning light. This determines the time required to complete the appropriate drills (5 minutes for a flashing warning, 10 minutes for steady warning)	Steady Flashing	
3	Note the battery capacity at one-hour rate	Amp-hours	A
4	Note the assumed available capacity (A x 75% x 60 minutes)	Amp-minutes	B
5	With engine(s) running establish the aircraft in a night icing condition		
6	Simulate a total generator failure and record the continuous current in the failed condition without shedding any loads.	Amps	C
7	Referring to the Flight Manual, set the aircraft up in a post load-shed condition for night operation. Record the continuous current	Amps	D
8	Establish the <i>extra</i> current required for both pitot heat and one VHF radio in transmit mode; record the <i>extra</i> current in this condition	Amps	E
9	From information in the Flight Manual set up the aircraft for a night landing and record the continuous current The aircraft engine(s) may now be shut down.	Amps	F
10	Determine the capacity required for night flying immediately following total generator failure: (5 or 10 min x C) (refer to item 2)	Amp-minutes	G
11	Determine the capacity required for emergency night landing following total generator failure: (5 mins x F)	Amp-minutes	H
12	Determine the additional pitot heat and radio transmit current required for 3 minutes in every 10 minutes during approach (E x 3/10)	Amps	I
13	Calculate the night cruise duration in emergency condition: $\frac{B-(G+H)}{D+I}$	Minutes	J

Total battery duration = Pre-shed duration 5/10 min + Landing duration 5 min + Cruise duration 'J'

This test is intended to demonstrate if the modified aircraft will meet the 30 minute requirement of CAP747 GR4. When completed, send a copy of this form to the design office.

Test completed by:

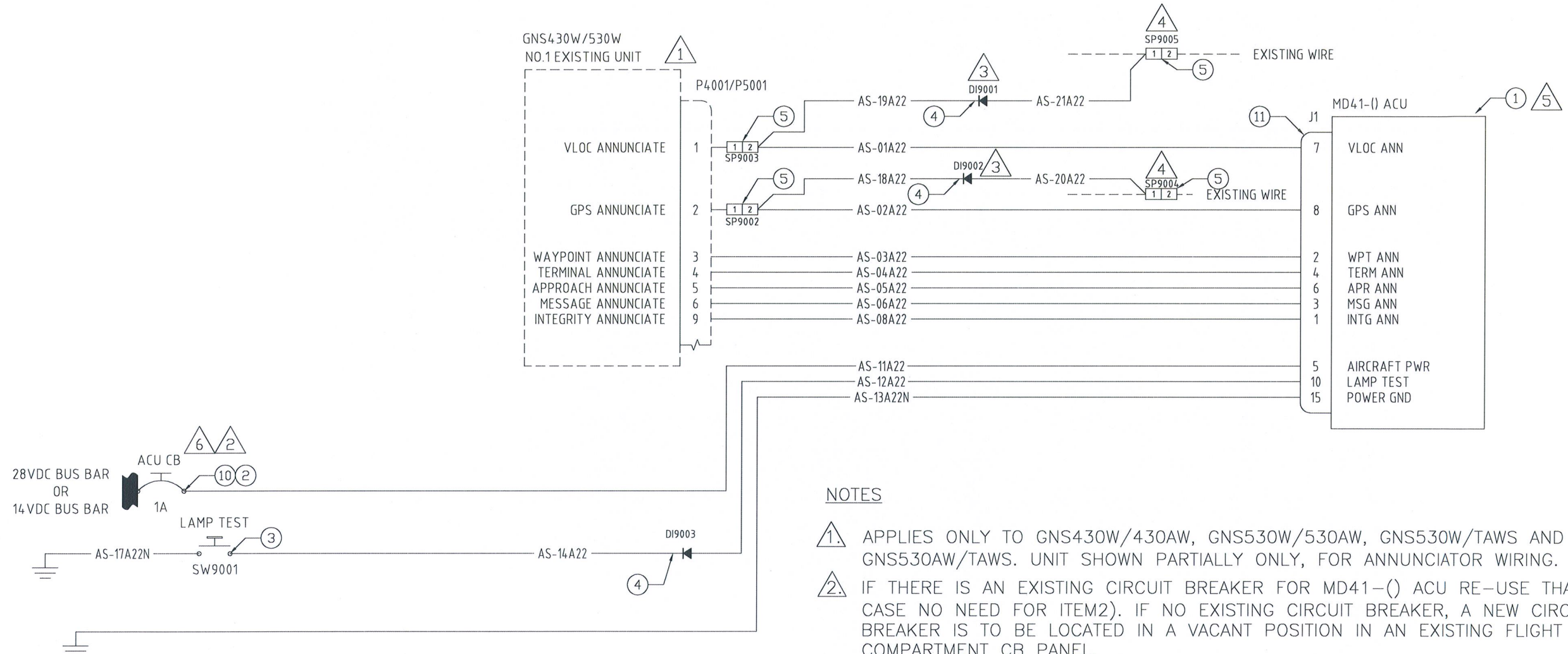
Name _____ Signature _____ Date _____

Design Organisation verification of the test result:

Name _____ Signature _____ Date _____

Drawings

ITEM	QTY	PART NUMBER	DESCRIPTION	MFG
1	1	MD41-14XXX	GPS ANNUNCIATOR CONTROL UNIT	MIDCONTINENT
2	1	7274-2-1	1A CB	KLIXON
3	1	9533CD+U572	MOM PRESS TO MAKE SWITCH + CAP	APEM
4	3	1N4005-E3	DIODE	VISHAY
5	4	D-436-37	ENVIRONMENTAL SPLICE - BLUE	RAYCHEM
10	1	36152	22-16G #6 RING TERMINAL/RED	VARIOUS
11	1	9016480	GPS ANNUNCIATOR CONTROL UNIT INSTALL KIT	MIDCONTINENT



NOTES

- 1. APPLIES ONLY TO GNS430W/430AW, GNS530W/530AW, GNS530W/TAWS AND GNS530AW/TAWS. UNIT SHOWN PARTIALLY ONLY, FOR ANNUNCIATOR WIRING.
- 2. IF THERE IS AN EXISTING CIRCUIT BREAKER FOR MD41-() ACU RE-USE THAT, (IN THIS CASE NO NEED FOR ITEM2). IF NO EXISTING CIRCUIT BREAKER, A NEW CIRCUIT BREAKER IS TO BE LOCATED IN A VACANT POSITION IN AN EXISTING FLIGHT COMPARTMENT CB PANEL.
- 3. INSTALL NEW DIODES IF PINS 1 AND 2 OF P4001 OR P5001 ARE WIRED ON AN EXISTING VLOC/GPS ANNUNCIATOR OR HSI/CDI.
- 4. CUT AND SPLICE THE WIRE AS CLOSE AS POSSIBLE TO THE EXISTING EQUIPMENT.
- 5. MODEL NUMBERS THAT CAN BE USED ARE MD41-1484W, MD41-1494W, MD41-1488W OR MD41-1498W. THIS WILL BE DEFINED BY THE AVAILABLE POWER SOURCE (28VDC OR 14VDC) AND BY THE ORIENTATION OF THE ACU.
- 6. 14VDC FOR MD41-1484W/1494W. 28VDC FOR MD41-1488W/1498W.
- 7. FOR UNMARKED WIRE TYPES AND GENERAL NOTES SEE DRAWING GN-ELEC-00.

DRAWN	NAME Allfred Vijay DIEUDONNÉ	SIGNED <i>[Signature]</i>	DATE 10/02/2015	Gama Aviation © COPYRIGHT EASA 21J.174 DESIGN FORM 101 - CAD-E (A3)	TITLE MD41-() ACU CONNECTION TO GNS 430W/530W
CHECKED	J. FLEGG	<i>[Signature]</i>	3/3/15		AIRCRAFT TYPE VARIOUS
APPROVED	A. DRUMMOND	<i>[Signature]</i>	03/03/2015	ISS 1 DO 14-263 SHEET 1 of 1	DWG NO 1259-11

Design Query (DQ)

Contact



Gama Aviation (Engineering) Ltd
Building A17, Fair Oaks Airport,
Chobham
Woking
GU24 8HU

☎: +44 (0) 1276 859 888

✉: DOA@gamaaviation.com

