



BORDAUSRÜSTUNG EQUIPEMENT DE BORD EQUIPMENT

Instrumente, Elektrische Anlage, Avionik
Instruments, Système Electrique, Avionics
Instruments, Electrical System, Avionics

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durch
par
by

Office fédéral de l'aviation civile
Section des aéronefs légers ^

[Signature]

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Ordre de classement

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- Work and Inspection Records



Baumuster
Type

Lancair 320 HB-YFR

Serie-Nr.
No de série
Serial No. 503

Datum Date	Betriebsstunden* Heures de service Time in service		Art der Arbeiten und Unterhaltsbescheinigung Genre des travaux et attestation d'entretien Kind of works and maintenance release
	TSN	TSO	
6.7.93	--	--	avion et instruments neufs contrôle OFAC
1.6.94	26 ⁴⁵		contrôle 100 h <i>AS</i>
28.5.95	86 ⁴²		contrôle 100 h <i>AS</i>
12.5.96	115 ³⁴		contrôle 100 h <i>AS</i>
17.5.97	152 ¹⁹		contrôle 100 h : installation trim électrique M/C profondeur + aileron gauche équilibre aileron statique <i>AS</i>
20.06.98	192 ⁵⁷		contrôle 100 h
16.08.99	215 ⁰⁷		contrôle 100 h
10.03.00	220 ⁰²		contrôle 100 h
02.05.01	252 ¹⁶		contrôle 100 h
26.06.01	266 ⁴⁰	IERA	
			⊕ Office fédéral de l'aviation civile Examen d'entrée / d'état Rapp.: 3540401 Insp.: <i>[Signature]</i>
			Dépose XPDR Nanco AT150 Pose XPDR KT76A SIR 129009 Teste encodeurs Teste de l'installation selon HB2000-460 Siau Pe 13-8-01 <i>h</i>
12.2.01			
16.7.01			Pose ELT ACK mod E-01 <i>AS</i> Pose pose: AT
14.5.02	356.05		contrôle 100 h <i>AS</i>
11.9.03			Dépose encodeurs AR 850-855H, Pose d'un encodeur ACK A304-85692 et test de panneaux HB2000-460 R2 C23293 Siau 11-9-03 <i>[Signature]</i>

*TSN: Time since new/Heures totales/Gesamtbetriebszeit

TSO: Time since overhaul/Heures depuis révision/Betriebszeit seit Überholung



Datum Date	Betriebsstunden* Heures de service Time in service		Art der Arbeiten und Unterhaltsbescheinigung Genre des travaux et attestation d'entretien Kind of works and maintenance release
	TSN	TSO	
16.7 26.02.03	436.38		Contrôle 100h
3.3.04	504.22		Contrôle 100h. + Pose EFIS D-10 Ser. No 1765 selon "Installation Guide" DE DYNON AVIONICS. A la place du compas gyroscopique c/s (ITEME Poids, pas d'influence sur centrage.) - Pose prise électrique 12 V avec CB de 2 Amp. - DEPOSE GPS PRONAV 100 - POSE GPS BARMIN 150 XL (PRONAV 100: PLUS DE BASE DE NAVIGATION.) ITEME POIDS.
15.7.04	529.21		COMPENSATION DE LA BOUSSOLE SUR PLACE DE SION. D. Delattre
19.12.04	553.53		Contrôle 50h selon AFM.
8.04.05	566.47		Contrôle 100h. selon AFM + Depose EFIS pour Upgrade
21.5.05	592.17		CTN de 50h + test XPPR 152000-460 KL Sion U-S-05 Part 145.A 60 Reliance to Service Delattre, J. 14.05.05 N° 1025

*TSN: Time since new/Heures totales/Gesamtbetriebszeit

TSO: Time since overhaul/Heures depuis révision/Betriebszeit seit Überholung

Unterhaltsnachweis – Historique de l'entretien
Maintenance Record

Baumuster

Type

Type

LANCAIR 320

HB-YFR

Serie- Nr

No de série

Serial No

503

Datum
Date

Betriebsstunden *
Heures de service
Time in service

TSN

TSO

Ausgeführte Arbeiten und Unterhaltsbescheinigungen
Travaux effectués et attestations d'entretien
Maintenance actions and releases

17.2.06

613.70

Echange filtres vacuum
crgors
Part 145.A.50 Release to Service
Delat
FAS N° 1025

6.4.06

614.10

Echange batterie de bord PA 12V 28AH
CTR de 100hm selon AFM

24.5.06

615.25

BOUSSOLE COMPENSEE A LGS

9.2.07

622.35

COMPENSATION BOUSSOLE EXECUTEE

1.2.07

622.35

ASI TEST EFFECTUE (VOIR RAPPORT)
PAR FARNER
(SUREFIS).
Part 145.A.50 Release to Service
Siggen D / FAS N° 1398

19.2.07

622.35

100 heures effectuée selon AFM.

04.05.07

627.39

ECHANGE BATTERIE DE BORD :
OUT : PA 12V 28AH 9,5 Ks.
IN : TRIPLE AMP, 12V 28AH : 9kg
TRIN IN AFM CORRIGE'

30.5.07

631.14

INDIC. PRESSION HUILE 4/5
ECHANGE INDIC + SONDE
ROCHESTER GAUGES 3050 et 3060

19.9.07

L'examen de ou des équipements transpondeur(s) a été effectué
conformément à la CT N° F 20.100-20; le(s) transpondeur(s)
répond(ent) aux conditions qui y figurent. HB 2066-500

Type de transpondeur ... HT 26A ... N° de série ... 129009 ...

Type de transpondeur ... N° de série ...

Date 19.9.07 ... N° de licence S ... FARNER CH 1450247

Signature ... Part 145.A.50 Release to Service

Siggen D / FAS N° 1398 M/S

* TSN: Time since new / Heures de service totales/ Gesamtbetriebszeit

TSO: Time since overhaul / Heures depuis révision / Betriebszeit seit Überholung

Unterhaltsnachweis – Historique de l'entretien Maintenance Record

Baumuster Type Type		Serie- Nr. No de série Serial No	
Datum Date	Betriebsstunden * Heures de service Time in service	Ausgeführte Arbeiten und Unterhaltsbescheinigungen Travaux effectués et attestations d'entretien Maintenance actions and releases	
	TSN	TSO	
21.11.07	667 ²¹		Contrôle 50h selon AFM
8.4.08	686 ¹⁵		Contrôle 100h selon AFM
17.11.08	718.39		ATC replacement "Garmin GTX 328 mode S. Voir rapport de travail
« Examen de l'équipement ATC conformément à la CT n° F 20.100-20 ; Le(s) transpondeur(s) répond(ent) aux conditions qui y figurent ». #1 ATC Type : Garmin GTX-328 S/N : 13K011328 #2 ATC Type : N/A S/N : N/A Date : 18.11.2008 – n° de licence : S320 – <i>MLL</i>			
5.02.09	725 ⁰²		Contrôle 100h selon AFM §8, Déc. 06/08
16.10.2009			ELT INSTALLATION IN ACCORDANCE WITH EASA <u>N/A</u> FOCA <u>N/A</u> IN : ARTEX ME406 S/N <u>188-14603</u> ELT BAT. REPL. DATE : <u>MARS 2015</u> DATE & NAME : <u>16.10.09</u> S320 <i>MLL</i>
04.11.2009	753 ¹⁵		Installation ELT ARTEX ME406, Voir rapport de travail.
4.02.2010	761.46		Contrôle des 100h selon AFM chef. & AFM, Déc. 2006
16.2.11	805 ²⁷		L'examen de ou des équipements transpondeur(s) a été effectué conformément à la CT-N° F 20.100-20; le(s) transpondeur(s) répond(ent) aux conditions qui y figurent. Type de transpondeur <u>GTX-328</u> N° de série <u>13K011328</u>... Type de transpondeur N° de série Date <u>16.2.11</u> N° de licence S <u>1328</u>..... Signature <i>[Signature]</i>

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Unterhaltsnachweis – Historique de l'entretien Maintenance Record

Baumuster Type Type		Serie- Nr No de série Serial No	
LANCAIR 320 HB-YFR		503	
Datum Date	Betriebsstunden * Heures de service Time in service	Ausgeführte Arbeiten und Unterhaltsbescheinigungen Travaux effectués et attestations d'entretien Maintenance actions and releases	
	TSN	TSO	
16.2.11	805 ²⁷		CONTROLE 100h selon AFM 88, Déc 06
07.02.12	851 ⁰⁵		CONTROLE 100h selon AFM 88, Déc 06
26.3.13			COMPENSATION Boussole exécutée
27.3.13	897 ³³		Contrôle des 100h selon AFM chap. 8 Déc. 2006
			L'examen de ou des équipements transpondeur(s) a été effectué conformément à la CT-N° F 20.100-20; le(s) transpondeur(s) répond(ent) aux conditions qui y figurent. Type de transpondeur GTX 328.. N° de série 13K011228... Type de transpondeur N° de série Date 27.3.13 N° de licence S 1398 Signature DS
			L'examen du compas magnétique / compas commandé à distance a été effectué conformément à la CTI 20.010-00 Lieu Sion Date 27.3.13 Rapport 33044 Signature DN
			Effectué test de l'ELT et de la vitesse Rapport 33044 FARNER CH 1450247 Part 145.A.53 Release to Service Siggen D / FAG N° 1358 M/S
12.3.14	938 ⁷⁴		Contrôle des 100h selon AFM 88 Déc. 2006
17.9.14	969 ⁴⁶		Contrôle des 50h selon AFM 88, Déc. 2006
10.03.15	1012 ³⁷	XPR	L'examen de ou des équipements transpondeur(s) a été effectué conformément à la CT-N° F 20.100-20; le(s) transpondeur(s) répond(ent) aux conditions qui y figurent. Type de transpondeur GTX 328.. N° de série 13K02228... Type de transpondeur N° de série Date 10.03.15 N° de licence S Signature
			PA: Vassalli AGV/418

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Unterhaltsnachweis – Historique de l'entretien Maintenance Record

Baumuster

Type

Type

Serie- Nr.

No de série

Serial No

Datum
Date

Betriebsstunden *
Heures de service
Time in service

TSN

TSO

Ausgeführte Arbeiten und Unterhaltsbescheinigungen
Travaux effectués et attestations d'entretien
Maintenance actions and releases

10.3.15

1012³⁷

Levanten du compas magnétique / compas commandé à distance
a été effectué conformément à la CTI 20.040-00

Lieu: Sion... Date: 10.3.15 Rapport: 35068 Signature: DM

Effectué test de l'ELT et de la vitesse
Rapport 35068

FARNER CH1450247

Part 145 A.50 Release to Service
Deluc J.-M./FAS N° 1392/MC/S

10.3.15

1012³⁷

CONTRÔLE DES 100 h. EFFECTUÉ

SECON AFM § 8, DEC 2006

X/305283

10.3.15

1012³⁷

Altimètre corrigé
Correspond avec Transpondeur
Altitude.

X/305283

Tu/Chet

Following work was performed for HB-YFR:
Exchange COM by Becker AR 6201

(Modification Documentation for EAS by A/C Owner)



AVIONITEC AG

CH.145.0181

certifies that the work specified except as otherwise specified was carried out in accordance with VLL ; SR 745.215.1 and in respect to that work the aircraft/aircraft component is considered ready for release to service.

Date: 05.09.2017
Work Order: 7716

Signed: T. Wey
Avionics Inspector Licence No: CH.66.304675

05.09.17

RA

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Unterhaltsnachweis – Historique de l'entretien Maintenance Record

Baumuster Type Type		Serie- Nr No de série Serial No	
Datum Date	Betriebsstunden * Heures de service Time in service	Ausgeführte Arbeiten und Unterhaltsbescheinigungen Travaux effectués et attestations d'entretien Maintenance actions and releases	
	TSN	TSO	
24.01.18	1016:22		 Carried out C-100 hrs + Annual inspection according to Lancair320 Annual Inspection Chap.8/ Rev.12.2006. For details see WR: Y-18403 A/C TSN: 1016:22 Ldgs: 1208 Cycles: NA Date: 24.01.2018 Special inspection items carried out COM Dittel FSG70 removed, New Becker 6201 installed by Avionitec WR: 7716 Rh PTT Switch cable repaired CT 20.100-20 Periodical Checks of Transponders CT 20.140-01 ELT Checks CT 20.040-00 Periodical Checks for Magnetic Compass MECANAIR SA Lic. CH145.0246 certifies that the work specified except as otherwise specified was carried out in accordance with ONAE RS 748.215.1 and in respect to that work the aircraft / aircraft component is considered ready for release to service. Authorisation N°: MEC-10357 Michael Flores
15.05.2018			 Contrôle dossier technique en ordre
12.11.2018	1021:35		 Carried out C-100 hrs + Annual inspection according to Lancair320 Annual Inspection Chap.8/ Rev.12.2006. For details see WR: Y-21088 A/C TSN: 1021:35 Ldgs: 1224 Cycles: NA Date: 12.11.2018 Special inspection items carried out Aircraft repaired after prop Strike Engine Lycoming O-320-E2D SN: L-36817-27AC installed after repair Propeller MTV-17-C SN: 92-281 installed after repair CT 20.040-00 Periodical Checks for Magnetic Compass MECANAIR SA Lic. CH145.0246 certifies that the work specified except as otherwise specified was carried out in accordance with ONAE RS 748.215.1 and in respect to that work the aircraft / aircraft component is considered ready for release to service. Authorisation N°: MEC-303938 Sergey Koltakov
04.10.2019	1030:31		 Carried out Unscheduled Work according to N/A and WO CAMO N° NA. For details see WR: Y-22771 A/C TSN: 1030:31 Ldgs: 1239 Cycles: NA Date: 04.10.2019 The following work has been carried out according to Lancair320 Annual Inspection Chap.8/ Rev.12.2006 Variometer United PN: 7030SN: 9E531 installed after repair by Avionitec WR: 10990 MECANAIR SA Lic. CH145.0246 certifies that the work specified except as otherwise specified was carried out in accordance with EASA Part-145 and in respect to that work the aircraft / aircraft component is considered ready for release to service. Authorisation N°: MEC-303938 Sergey Koltakov

* TSN: Time since new / Heures de service totales/ Ge

TSO: Time since overhaul / Heures depuis révision / Betriebszeit seit Überholung



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Unterhaltsnachweis – Historique de l'entretien Maintenance Record

Baumuster Type Type		Serie- Nr. No de série Serial No
Datum Date	Betriebsstunden * Heures de service Time in service	Ausgeführte Arbeiten und Unterhaltsbescheinigungen Travaux effectués et attestations d'entretien Maintenance actions and releases
	TSN	TSO
11.11.2019	1037:09	AIR-GLACIERS COMPAGNIE D'AVIATION Maintenance Statement and Logbook Entry for Aircraft HB-YFR Aircraft Type: Neico Aviation Lancair 320 Aircraft S/n: 503 Engine #1 TSN: 1037:09 Engine #2 TSN: Transponder periodic test performed i.a.w. CT 20.100-20 and FAR 43 App. F. Altitude encoder tested up to 20'000 feet The transponder system complies with the requirements given by CT 20.100-20. Transponder model: Garmin GTX 328 Transponder S/N: 13K011328 For detailed information of performed work refer to work report: A-19-075 Release To Flight Service Certified that work specified except as otherwise specified was carried out in accordance with part-145 and in respect to that work the aircraft / aircraft component is considered ready for release to service. CH 145.0249 CH 2300 La Chaux-de-Fonds LSCG Airport Switzerland Date: 11.11.2019 Signed: D. Perrenoud CH.66.2450
22.11.19	1037:09	FARNER AIR SERVICES SWISS SA CH 145 0247 Effectué contrôle de 100 heures selon rapport N° 39134 Date 22.11.19 Name/Lic. N° : FARNER CH1450247 Part 145 A.50 Release to Service Deluce J.-M./FAS N° 1392 M/C/S L'examen du compas magnétique / compas commandé à distance a été effectué conformément à la CT 20.040-00 Lieu Sign. Date 22.11.19 Rapport 39134 Signature OM
		Effectué test de l'ELT et de la batterie Rapport 39134 FARNER CH1450247 Part 145 A.50 Release to Service Deluce J.-M./FAS N° 1392 M/C/S
10.12.2020	1072:12	MécanAir Carried out C-100 hrs + Annual inspection according to Lancair320 Annual Inspection Chap.8/ Rev.12.2006. For details see WR: Y-26130 A/C TSN: 1072:12 Ldgs: 1283 Cycles: NA Date: 10.12.2020 Special inspection items carried out Vacuum & Instruments filters replaced CT 20.140-01 ELT Checks MECANAIR SA Lic. CH145.0246 certifies that the work specified except as otherwise specified was carried out in accordance with ONAE RS 748.215.1 and in respect to that work the aircraft / aircraft component is considered ready for release to service. Authorisation N°: MEC-303973 Axel Chevaux

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Verzeichnis der Lufttüchtigkeitsanweisungen Liste des consignes de navigabilité Record of Airworthiness Directives

Baumuster

Type LANCAIR 320
Type

Serie-Nr-
No de série 503
Serial-Nr

HB - LTA Nr. CN - HB no. HB - AD no	Ursprüngliche Anweisung Consigne originale Original Directive	Herstellieranweisung Consigne du constructeur Manufacturer's Doc	Nächste Fälligkeit Prochaine échéance Next Compliance	Gegenstand, Art der Durchführung Objet, méthode d'exécution Subject, method of compliance	Ausgeführt – exécutées - accomplished	
					am le date	Durch – par – by (Unterschrift – Signature)
2000-460R2	CAA 002-12-99R1			MODE C & S TRANSPONDER <i>s/s</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
2006-220	FAA 2006-03-08			ADVANTAGE VACUUM PUMP <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
2006-500	EASA 2006-0265			MODE C & S TRANSPONDER <i>s/s</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
2006-500R1	EASA 2006-0265			MODE C & S TRANSPONDER <i>s/s</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
2008-359	EASA 2008-0183			TRT 800 MODE S <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2009-0173R1			ROCKWELL COLLINS TDR 94 <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2010-0186			DITTEL MESSTECHNIK <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2010-0204			ROCKWELL COLLINS TDR 94 <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2011-0093			TRI-BAND ELT ANTENNAS <i>s/s</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2011-0103			TRI-BAND ELT ANTENNAS <i>N/A</i>	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2006-0265CN			MODE C & S TRANSPONDER	04.02.10	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	FAA 2015-10-51			AVIDYNE FLIGHT DISPLAYS <i>N/A</i>	22.11.19	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	FAA 2017-16-01			AMERI-KING ELT <i>N/A</i>	22.11.19	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2018-0247			TRANSPONDER <i>N/A</i>	22.11.19	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	FAA 2019-01-02			ASPEN AVIONICS DISPLAY <i>N/A</i>	22.11.19	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>
	EASA 2019-0235			ELT ACR C406 / G406 <i>N/A</i>	22.11.19	Part 145.A.50 Release to Service Deluce J.-M./FAS N° 1392 <i>DM</i>



Avionics Equipment List for HB- YFR

Date 16.10.2009

Number	Description	Manufacturer Type, Model	Number	Description	Manufacturer Type, Model
	VHF-COM 1	DITTEL FSG-70		VHF-NAV 1	
☒	- Control Head	<i>Becker 6201</i>		- Control Head	
☒	- Transceiver			- Receiver	
☒	- Antenna	DYNAMIC INC.		- Converter	
				- Indicator	
				- Antenna	
	VHF-COM 2			VHF-NAV 2	
	- Control Head			- Control Head	
	- Transceiver			- Receiver	
	- Antenna			- Converter	
				- Indicator	
				- Antenna	
	VHF-COM 3			Long Range / RNAV Navigation System	
	- Control Head			- FMS	
	- Transceiver		☒	- GPS	GARMIN 150-XL
	- Antenna			- INS / IRS	
				- Loran C	
	HF-COM			Glide Slope Receiver	
	- Control Head			- Control Head	
	- Transceiver			- Receiver	
	- Antenna			- Antenna	
	- Selcal				
	Audio-System			Marker Receiver	
	- Isolation Amplifier			- Receiver	
	- Speaker Amplifier			- Indicator	
	- Selector			- Antenna	
	- Intercom				
	Emergency Locator Transmitter	ARTEX ME406		ADF	
☒	- Transmitter	TSO: C126		- Control Head	
☒	- Remote Switch			- Receiver / Amplifier	
☒	- Antenna AF, AP			- Indicator	
	- Frequencies MHz 121,5 ☒ ; 243 ☐ ; 406 ☒			- Antenna	
	Transponder	GARMIN GTX-328		DME	
☒	- Control Head			- Control Unit	
☒	- Transceiver			- Transceiver	
☒	- Antenna	CI-101		- Indicator	
	- Mode A ☒ ; C ☒ ; S ☒ Level..2.....			- Antenna	
☒	- Encoder	ACK-A30 Mod. 8			

COMPENSATION SELON CT OFAC N° 20.040-00 (édition du 28.11.14)

AVION HB-YFR DATE: 22.11.19 LIEU: Sion RAPPORT: 39134

☒ avion VFR +/- 10°

☐ avion IFR +/- 5°

Compas magnétique

For	N	30	60	E	120	150
Steer	0	30	59	88	120	150
For	S	210	240	W	300	330
Steer	181	204	245	270	300	330

Compas commandé à distance

For	N	30	60	E	120	150
Steer						
For	S	210	240	W	300	330
Steer						

FARNER CH1450247

Part 145.A.50 Release to Service

Deluxe J.-M./FAS N° 1392 M/G/S

Compensation effectuée par.....

Pose table(s) effectuée: Signature: DM

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 7364548766 1000000032496830	
4. Organization Name and Address: AVIALl SERVICES INC. 2750 REGENT BLVD DFW AIRPORT, TX 75261				5. Work Order/Contract/Invoice Number: 32620	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	COMPASS	C2400-L4P	2	VD-10489, VD-10493	NEW
12. Remarks: CH COL 1456 THIS COMPASS IS A SUBCOMPONENT OF A TSO AUTHORIZATION. TSO-C7C THE PRODUCT(S)/ARTICLE(S) SHIPPED UNDER THIS APPROVAL WERE PRODUCED BY AIRPATH INSTRUMENT COMPANY.					
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature: 		13c. Approval/Authorization No.: 726425056		14b. Authorized Signature:	
13d. Name (Typed or Printed): JAMES FERRIS		13e. Date (dd/mmm/yyyy): 28 JUN 2017		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): JAMES FERRIS		13e. Date (dd/mmm/yyyy): 28 JUN 2017		14d. Name (Typed or Printed):	
13d. Name (Typed or Printed): JAMES FERRIS		13e. Date (dd/mmm/yyyy): 28 JUN 2017		14e. Date (dd/mmm/yyyy):	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/ article(s) from the airworthiness authority of the country specified in the Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					



Bundesamt für Zivilluftfahrt
Office fédéral de l'aviation
civile

Ausrüstungsliste (Instrumente) Liste d'équipement (Instruments)

Ausrüstungsliste No. 1
Liste d'équipement
des Luftfahrzeuge HB-YFR
de l'aéronef

Erstellt am 22.6.93 in CHAVORNAY
Etablie le à

Diese Liste ersetzt die Ausrüstungsliste
La présente liste No. remplace la liste d'équipement No.

Pos.	Anzahl Nombre	Instrument / Muster Instrument / Type	Mass- einheit Unité de mesure	Mess- bereich Etendue de mesure	Markierungsbereiche und -grenzen Marques limites et repères			
					grün/vert	gelb/jaune	weiss/blanc	rot/rouge
1		Fahrtmesser Ind. de vitesse	HPH/KTS	0-300 0-260	100-210	210-270	65-115	270
2		Höhenmesser Altimètre						
3		Höhenmesser Altimètre	Fe	0-20000				
4		Variometer Variomètre	Fe/min	± 3000				
5		Wendezeiger Ind. virage et inclinaison latér.						
6		Künstl. Horizont Horizon artificiel	°	± 45°				
7		Kurskreisel Gyroscope directionnel	°	360°				
8		Magnetkompass Compas magnétique	°	360°				
9		Borduhr / Stoppuhr Montre de bord / chronographe	—					
10		Beschleunigungsmesser Accéléromètre	—					
11		Vakuummeter (für Pos. 5, 6, 7) Ind. de succion (pour pos. 5, 6, 7)	—					
12		Aussenluftthermometer Ind. temp. extérieure	—					
13		Amperemeter Ampèremètre	A	± 30				
14		EFIS DYNON D-10						
15								
16								
17		Drehzahlmesser Tachymètre	RPM	0-3000				
18		Ladedruckmesser Ind. pression d'admission	inch/Hg	0-30	15-24			31
19		Vergaserthermometer Ind. temp. carburateur	—					
20		Oeldruckmesser Ind. pression d'huile	PSI	0-100	60-100			25/100
21		Ölthermometer Thermomètre d'huile	°F	0-245	160-220	100-160		245
22		Zylinderkopfthermometer Ind. temp. tête de cyl.	°F	200-600	275-425	425-500		500
23		Treibstoffdruckmesser Ind. pression carburant	kein/min	kein/min	kein/min			
24		Treibstoffmengenanzeige Ind. niveau carburant						
25								
26								
27								
28								
29								
30								

Schéma

Unterschrift des Inspektors//
Sachverständigen
Signature de l'inspecteur/de l'expert

Ergänzungen:
Compléments:

No 1 am le _____ (Pos. _____)
No 2 am le _____ (Pos. _____)

No 3 am le _____ (Pos. _____)
No 4 am le _____ (Pos. _____)

Exemplar für Halter
Exemplaire pour l'exploitant

Jedes Instrument, das entfernt wird, ist unter Angabe des Datums auf dieser Liste zu streichen
Biffer dans la liste, en indiquant la date, tout instrument qui a été supprimé

Diese Liste ist in das Bordausrüstungsbuch des Luftfahrzeuges einzuheften
La présente liste doit être classée dans le livret d'équipement de bord de l'aéronef



Bundesamt für Zivilluftfahrt
Office fédéral de l'aviation civile

Ausrüstungsliste Liste d'équipement

E (Elektrisches Bordnetz)
(Réseau électrique de bord)

Ausrüstungsliste
Liste d'équipement
des Luftfahrzeuge
de l'aéronef

No 1
HB-YFR

Erstellt am 22.6.93
Etablie le

in CHAVORNAY
à

Diese Liste
La présente liste No

ersetzt die Ausrüstungsliste
remplace la liste d'équipement No

Spannung des Bordnetzes
Tension du réseau de bord

V

Pos.	Anzahl Nombre	Gegenstand Objet	Spezifikation Spécification	Muster / Zulassung Type / certification
1		Batterie <u>LECLANCHE</u>	<u>12 V - 24 AH</u>	<u>PA1224</u>
2		Zusatzbatterie Batterie supplémentaire		
3		Hauptschalter Interrupteur principal	<u>Schmitt</u>	
4		Gleichstromerzeuger Génératrice	☒ Alternator / alternateur ☐ Generator / générateur	<u>12 V 35 A</u> <u>HONDA</u>
5		Wechselstromerzeuger Alternateur	<u>"</u>	<u>"</u>
6		Spannungsregler Régulateur de tension	<u>ACS</u>	
7		Rückstromrelais, Über-/Unterspannungsrelais Relais de contre-courant, relais de surtension/soustension	<u>-</u>	
8		Generatorschutzwarnung Alerte de perte de génératrice		
9		Starter Démarreur	<u>SKYTECH</u>	
10		Landeklappenmotor Moteur des volets d'atterrissage	<u>SKF</u>	
11		Fahrwerkmotor Moteur du train d'atterrissage	<u>SKYTECH</u>	
12		Trimm-Motor Moteur de trim	<u>-</u>	
13		Fahrwerkstellungsanzeige Indicateur de la position du train d'atterrissage	<u>3 Lampen vorne</u>	
14		Landeklappenstellungsanzeige Indicateur de la position des volets d'atterrissage	<u>1 Lampe auf der rechten Seite</u>	
15		Treibstoffmengenanzeige Indicateur du niveau de carburant	<u>WESTACH + 1 Lampe</u>	
16		Treibstoffpumpe Pompe à carburant	<u>FACET</u>	
17		Schmelzsicherungen Fusibles		
18		Sicherungsautomaten Disjoncteurs		
19		Positionslichter Feux de position	<u>-</u>	
20		Zusammenstosswarnlichter Feux anticollision	<u>-</u>	
21		Landescheinwerfer Projecteur d'atterrissage	☐ ein System / un système ☐ zwei Systeme / deux systèmes	<u>-</u>
22		Rollscheinwerfer Projecteur de roulage	<u>-</u>	
23		Kabinenbeleuchtung Eclairage de la cabine	☐ regulierbar / réglable ☐ nicht regulierbar / non réglable	<u>-</u>
24		Instrumentenbeleuchtung Eclairage des instruments	☐ regulierbar / réglable ☐ nicht regulierbar / non réglable	<u>-</u>
25		Kabinenheizung Chauffage de la cabine	<u>-</u>	
26		Pittheizung Chauffage du pitot	<u>-</u>	
27		Zellenenteisung Dégivrage de la cellule	☐ Flügel / ailes ☐ Leitwerk / empennage	<u>-</u>
28		Propellerenteisung Dégivrage de l'hélice	<u>-</u>	
29		Windschutzscheibenteisung Dégivrage du pare-brise	<u>-</u>	
30		Scheibenwischermotor Moteur de l'essuie-glace	<u>-</u>	
31		Abkippprevorwarnung Avertisseur de décrochage	<u>-</u>	
32		Aussenbordanschluss Connexion extérieure de bord	<u>-</u>	
33		Avionik-Hauptschalter Interrupteur général radio	☒ ein System / un système ☐ Überbrückung / pontage	
34				

Unterschrift des Prüfers / Inspektors
Signature de l'expert / de l'inspecteur

Ergänzungen:
Compléments:

No 1 am le _____ (Pos. _____)
No 2 am le _____ (Pos. _____)

No 3 am le _____ (Pos. _____)
No 4 am le _____ (Pos. _____)

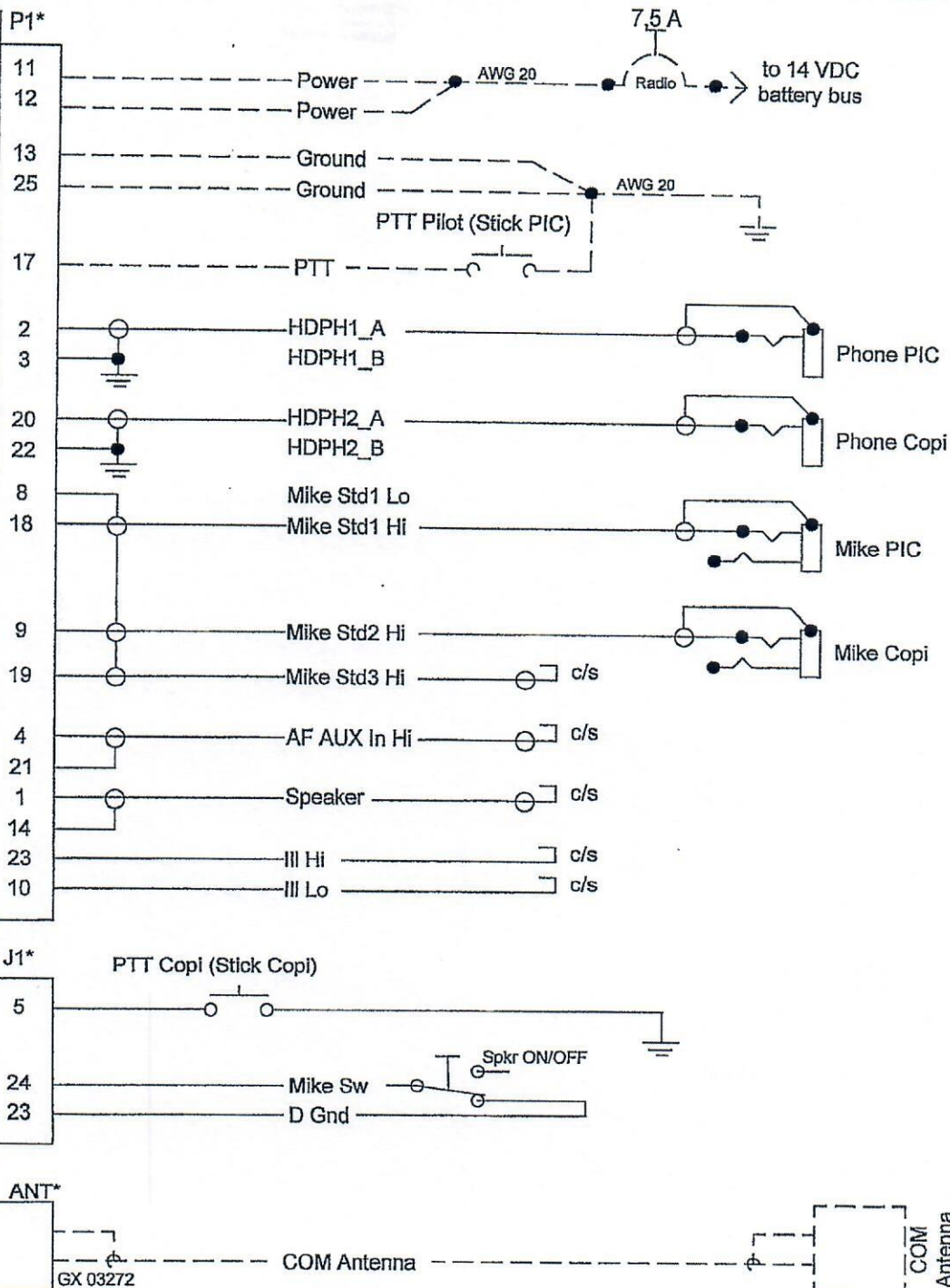
Exemplar für Halter
Exemplaire pour l'exploitant

Jeder Gegenstand, der entfernt wird, ist unter Angabe des Datums auf dieser Liste zu streichen
Biffer dans la liste, en indiquant la date, tout objet qui a été supprimé

Diese Liste ist in das Bordausrüstungsbuch des Luftfahrzeuges einzuheften
La présente liste doit être classée dans le livret d'équipement de bord de l'aéronef

Becker COM Transceiver

AR 6201



Notes: Unless noted all wires are AWG 22
 Wires specification: non shielded wires are MIL-22759/34; shielded wires are MIL-27500
 * = for detailed connector info refer to original manufacturer installation manuals
 Dashed outlined systems are existing units

1	1	Becker COM Transceiver	AR6201	new installed unit	
Pos.	Pcs.	Description	Part Number	Remarks	
			Date	Name	
			Drawn	15.08.17	La
			Appr.	05.09.17	TW
			A/C Type	LANCAIR 320	
Rev	Description	Date	Name	Serial No	503
AVIONITEC AG General Aviation Center P.O.BOX 63 8058 Zuerich Airport Switzerland		A/C Immatr.		Drawing No	
		HB-YFR		7716-COM	
		Scale		Sheet 1 of 1	
				Index	

1. Approving Competent Authority / Country Zuständige Genehmigungsbehörde / Staat Luftfahrt-Bundesamt / Germany		2. AUTHORISED RELEASE CERTIFICATE FREIGABEBESCHEINIGUNG EASA FORM 1 EASA-FORMBLATT 1		3. Form Tracking Number Lfd. Nummer 1701319	
4. Organisation Name and Address Name und Anschrift des Unternehmens Becker Avionics GmbH - Baden-Airpark B108 - 77836 Rheinmünster				5. Work Order / Contract / Invoice Arbeitsauftrag / Bestellung / Rechnung 221262	
6. Item Pos.	7. Description Beschreibung	8. Part No. Teile-Nr.	9. Quantity Menge	10. Serial Number Werk- / Losnummer	11. Status / Work Status / Arbeiten
01	VHF-Transceiver (ETSO - 2C37e/2C38e)	AR6201-(022)	1	07882	NEW
12. Remarks Bemerkungen for 01: License Number: EASA.210.1249; BAG Article Number: 0636.339-910; Change Index: 0; Software Version 4.06 / 2.06					
13a. Certifies that the items identified above were manufactured in conformity to: Bescheinigt, dass die oben angegebenen Artikel hergestellt wurden in Übereinstimmung mit: ☒ approved design data and are in a condition for safe operation genehmigten Konstruktionsdaten und sich in einem betriebs sicheren Zustand befinden ☐ non-approved design data specified in block 12 nicht genehmigten Konstruktionsdaten gemäß Angabe in Feld 12			14a. ☐ PART 145.A.50 Release to Service Teil-145.A.50 Freigabe ☐ Other regulation specified in block 12 Andere, in Feld 12 angegebene Vorschrift Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with PART 145 and in respect to that work the items are considered ready for release to service. Bescheinigt hiermit, dass, wenn in Feld 12 nichts anderes festgelegt ist, die in Feld 11 aufgeführte und in Feld 12 beschriebene Arbeit in Übereinstimmung mit Teil-145 durchgeführt wurde und dass der Artikel im Hinblick auf diese Arbeit für die Erstellung einer Freigabe geeignet ist.		
13b. Authorized Signature Rechtsgültige Unterschrift 		13c. Approval / Authorisation Number Nr. der Genehmigung DE.21G.0075		14b. Authorized Signature Rechtsgültige Unterschrift	
13d. Name Name Christian Sinnen		13e. Date (dd/mm/yyyy) Datum 21/Feb/2017		14c. Certificate / Approval Reference Number Nr. der Genehmigung / Zulassung DE.145.0166	
14d. Name Name		14e. Date (dd/mm/yyyy) Datum			

WORKREPORT 7716



Avionitec AG, General Aviation Center, P.O.BOX 63, CH-8058 Zurich-Airport, Phone : + 41 43 816 44 39, FAX : +41 44 814 33 42, E-Mail : avionik@avionitec.ch

Registration : HB-YFR

Owner: C. Mollet, Sion

Aircraft Type: Lancair 320

S/N: 503

Work performed: 05. September 2017

Performed Work: Exchange COM by a Becker AR 6201

NAA Registration Nr.: n/a

Modification approval: Modification Documentation for EAS by A/C Owner

1.) Performed work :

- Engineering performed for this modification
- Produced wirings on bench according Avionitec Wiring Diagram for the new COM System
- Old COM Radio (Dittel FSG 70) including Rack removed and existing wiring installation adapted as required
- Installed new wirings in reference to approved Avionitec schemata and interfaced to the existing Systems as required.
- Installed new COM Transceiver (Becker AR 6201) at same location
- New system configured and tested acc. original manufacturer document.

Additional Works:

- n/a

2.) Performed Paperwork :

According to the responsible Technical Department of Experimental Aviation of Switzerland (Mr. G. Serwart), the Modification Documentation is under the responsibility of the Experimental Aircraft owner.

3.) Statements :

- Avionitec confirms that the described work was correctly released in the maintenance record according EASA Part 145.

Avionitec AG certifies that the work specified except as otherwise specified was carried out in accordance with VLL; SR748.215.1 and in respect to that work the aircraft/aircraft component is considered ready for release to service

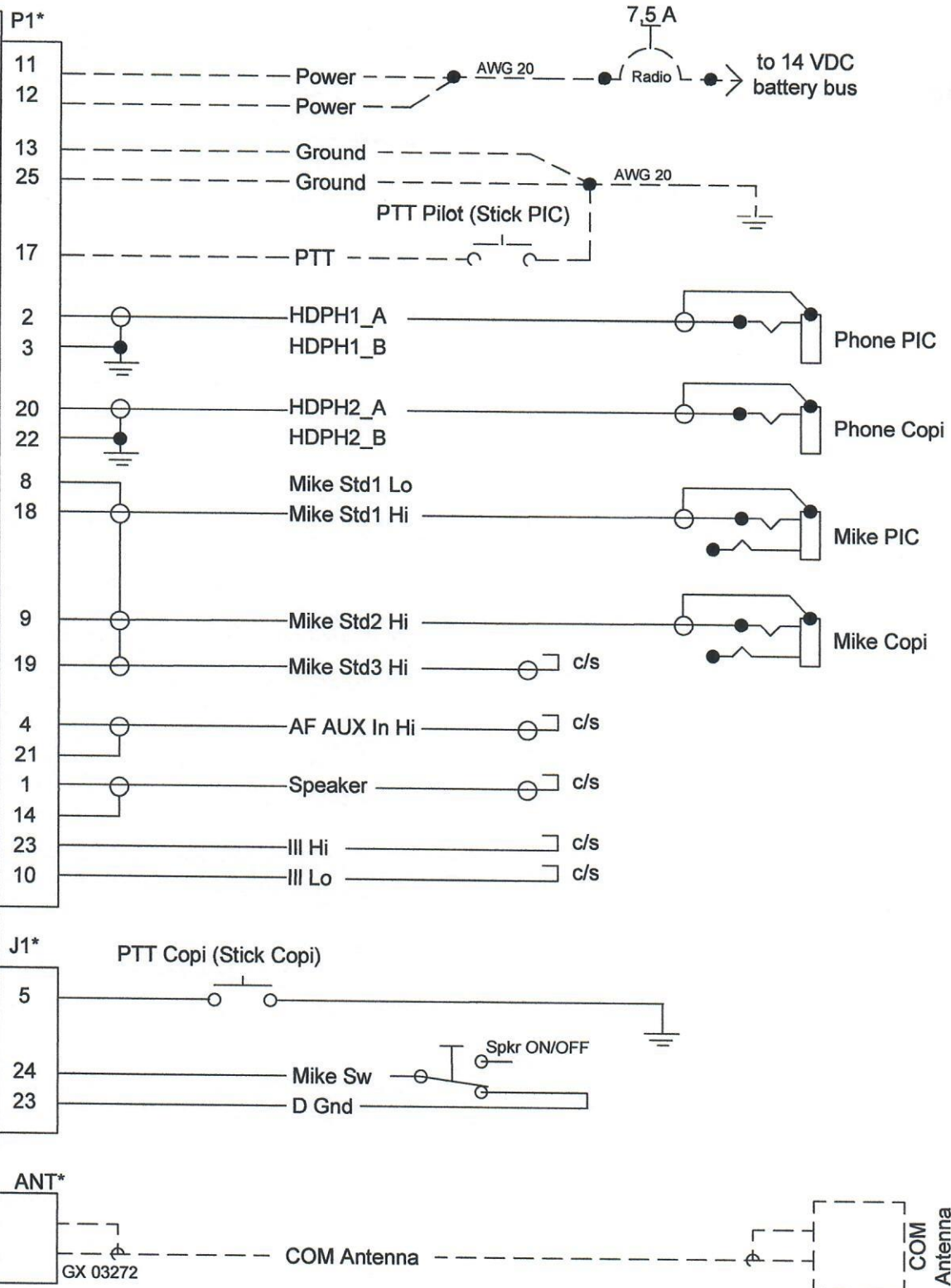
Zürich-Airport, 05.09.2017
Avionitec AG
CH 145.0181
CH-8058 Zürich-Airport


T. Wey, CH.66.304675
Certified avionics engineer

Becker COM Transceiver

AR 6201

①



Notes: Unless noted all wires are AWG 22
 Wires specification: non shielded wires are MIL-22759/34; shielded wires are MIL-27500
 * = for detailed connector info refer to original manufacturer installation manuals
 Dashed outlined systems are existing units

Detailed outlined systems are existing units									
1	1	Becker COM Transceiver			AR6201			new installed unit	
Pos.	Pcs.	Description			Part Number			Remarks	
					Date	Name	Becker COM System AR 6201		
				Drawn	15.08.17	La			
				Appr.	05.09.17	TW			
				A/C Type	LANCAIR 320				
Rev	Description		Date	Name	Serial No	503			
		AVIONITEC AG General Aviation Center P.O.BOX 63 8058 Zuerich Airport Switzerland		A/C Immatr.			Drawing No		Sheet 1 of 1
				HB-YFR					
				Scale			7716-COM		

1. Approving Competent Authority / Country Zuständige Genehmigungsbehörde / Staat Luffahrt-Bundesamt / Germany		AUTHORISED RELEASE CERTIFICATE FREIGABEBESCHEINIGUNG EASA FORM 1 EASA-FORMBLATT 1		3. Form Tracking Number Lfd. Nummer 1701319	
4. Organisation Name and Address Name und Anschrift des Unternehmens Becker Avionics GmbH - Baden-Airpark B108 - 77836 Rheinmünster				5. Work Order / Contract / Invoice Arbeitsauftrag / Bestellung / Rechnung 221262	
6. Item Pos. 01	7. Description Beschreibung VHF-Transceiver (ETSO - 2C37e/2C38e)	8. Part No. Teile-Nr. AR6201-(022)	9. Quantity Menge 1	10. Serial Number Werk- / Losnummer 07882	11. Status / Work Status / Arbeiten NEW
12. Remarks Bemerkungen for 01: License Number: EASA.21O.1249; BAG Article Number: 0636.339-910; Change Index: 0; Software Version 4.06 / 2.06					
13a. Certifies that the items identified above were manufactured in conformity to: Bescheinigt, dass die oben angegebenen Artikel hergestellt wurden in Übereinstimmung mit: ☒ approved design data and are in a condition for safe operation genehmigten Konstruktionsdaten und sich in einem betriebssicheren Zustand befinden ☐ non-approved design data specified in block 12 nicht genehmigten Konstruktionsdaten gemäß Angabe in Feld 12			14a. PART 145.A.50 Release to Service ☐ Teil-145.A.50 Freigabe ☐ Other regulation specified in block 12 Andere, in Feld 12 angegebene Vorschrift Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with PART 145 and in respect to that work the items are considered ready for release to service. Bescheinigt hiermit, dass, wenn in Feld 12 nichts anderes festgelegt ist, die in Feld 11 aufgeführte und in Feld 12 beschriebene Arbeit in Übereinstimmung mit Teil-145 durchgeführt wurde und dass der Artikel im Hinblick auf diese Arbeit für die Erteilung einer Freigabe geeignet ist.		
13b. Authorized Signature Rechtsgültige Unterschrift 	13c. Approval / Authorisation Number Nr. der Genehmigung DE.21G.0075	14b. Authorised Signature Rechtsgültige Unterschrift 	14c. Certificate / Approval Reference Number Nr. der Genehmigung / Zulassung DE.145.0166		
13d. Name Name Christian Sinnen	13e. Date (dd/mm/yyyy) Datum 21/Feb/2017	14d. Name Name	14e. Date (dd/mm/yyyy) Datum		



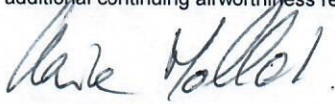
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of the Environment,
Transport, Energy and Communications DETEC

Federal Office of Civil Aviation FOCA
Safety Division - Aircraft

FOCA Form 123 (Issue 01)

FOCA Form 123 — Standard Change/Standard Repair (SC/SR) embodiment record		1. SC/SR number(s): 2017YFR1
2. SC/SR title & description: COM 8.33 installation		
3. Applicability: HB-YFR Lancair 320 SN: 503		
4. List of parts (description/Part-No/Qty): Becker COM System 6201 (1ea)		
5. Operational limitations/affected aircraft manuals. Copies of these manuals are provided to the aircraft owner: AFM / Equipment List		
6. Documents used for the development and embodiment of this SC/SR: Avionitec Drawing 7716-COM		
* Copies of the documents marked with an asterisk are handed over to the aircraft owner.		
7. Instructions for continuing airworthiness. Copies of these manuals are provided to the aircraft owner: On condition only, no maintenance required (Becker Inst. operation manual Issue 5 of 5/2013 Chap2.13)		
8. Other information: NIL		
9a. ☒ This SC complies with the established criteria (see note 9a) and with the relevant paragraphs of CS-STAN.		
9b. ☐ This SR complies with the established criteria (see note 9b) and with the relevant paragraphs of CS-STAN.		
10. Date of SC/SR embodiment: 22 December 2017		11. Identification data and signature of the person responsible for the embodiment of the SC/SR: Axel Chevaux FOCA303973 MECANAIR SA 
12. Signature of the aircraft owner. This signature attests that all relevant documentation is handed over from the issuer of this form to the aircraft owner, and, therefore, the latter becomes aware of any impact or limitations on operations or additional continuing airworthiness requirements, which may apply to the aircraft due to the embodiment of the change/repair. 		

De : Claude Mollet <claude.mollet@netplus.ch>
Objet :
Date : 31 août 2009 14:33:56 GMT+02:00



► 1 pièce jointe, 178 Ko



**Experimental Aviation of Switzerland
Acceptance Group**

CONFIRMATION OF MINOR ALTERATIONS

We hereby confirm that we have accepted the following minor alterations according to "EAS-Prozessablauf, Kapitel 5, Änderungen am Luftfahrzeug":

- **Aircraft Type:** Lancair 320
- **Immatriculation:** HB-YFR

List of accepted minor alterations:

- **Installation of ELT 406MHz**

The owner of the aircraft should update his aircraft documentation accordingly.

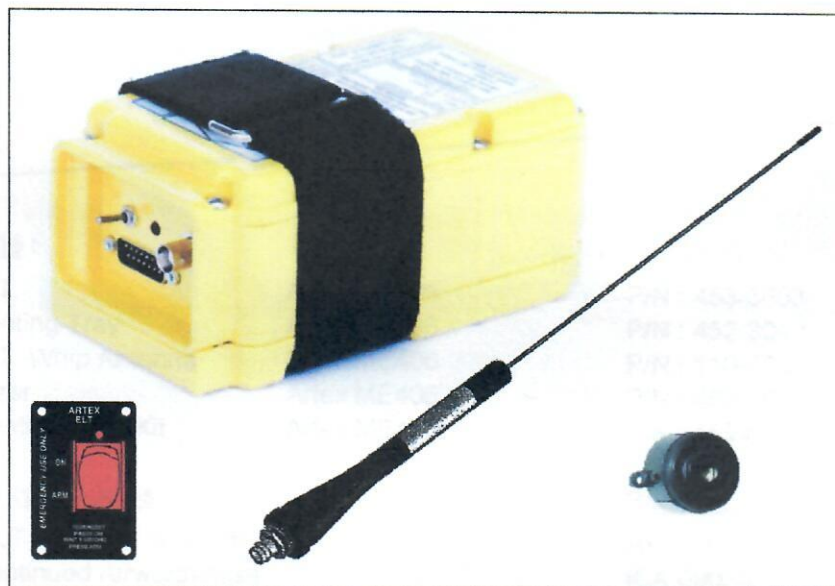
For the EAS Acceptance Group:

Jona, 31. August 2009

Martin Pohl

Modification avionique n° AB-09053

« Emergency Locator Transmitter Installation »



HB-YFR

LANCAIR 320

S/N : 503



Propriétaire/Exploitant : Claude Mollet
Adresse : Rue Ste.-Marguerite, 2 - 1950 Sion
Tél. : 027 321.17.77

Immatriculation :
HB-YFR

Date (j-m-a) : 16.10.2009 **RAPPORT DE TRAVAIL N° :** **RT-09053** Page 1 de 1

ANNEE 1993	Constructeur	Type	N° série	TSN	TSO
Cellule	Construction amateur/CH	Lancair 320	503	N/A	N/A

Travaux d'entretien exécutés du : mi octobre à Lausanne

Raison des travaux : **ELT Installation**

Modification avionique n° **AB-09053**

Equipement déposé :

Equipement installé :

1	E.L.T.	Artex ME406	P/N : 453-6603	S/N : 188-14603
1	Mounting Tray	Artex ME406	P/N : 452-3042	S/N : N/A
1	E.L.T. Whip Antenna	Artex ME406	P/N : 110-773	S/N : N/A
1	Buzzer	Artex ME406	P/N : 452-6505	S/N : N/A
1	Remote Switch Kit	Artex ME406	P/N : 455-6196	S/N : N/A

Liste des documents associés :

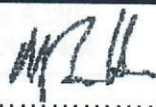
- 406 MHz Swiss ELT Registration Form
- Instructions for Continued Airworthiness
- Schéma électrique de l'installation ELT

Réf. doc.

HB-YFR
ICA-09053
WD-25.66.01

Liste des documents remis à jour :

- Concession de radiocommunication
- Liste d'équipement avionique

(..... **A. Buttex**) **Signature :** 

Licence cat. / No. : S / 320

Registration : **HB-YFR**
Aircraft model/type : Lancair 320
Serial number : 503
Ref. modification : AB-09053 « ELT Installation »

1. Introduction

Content, Scope,
Purpose and Arrangement: This document identifies the Instructions for Continued Airworthiness for the modification of the above aircraft by installation of Artex ME406.

Applicability: Applies to aircraft altered by installation of Artex ME406.

Definitions/Abbreviation: None, N/A.

Precautions: None, N/A.

Units of Measurements: None, N/A.

Referenced Publications: Artex ME406 Installation Manual, P/N : 570-1600
Artex ME406 Maintenance Manual, P/N : 570-1600
Artex ME406 Operation Manual, P/N : 570-1600

Distribution: This document should be a permanent aircraft record.

2. Description of the Alteration

Emergency locator transmitter Artex ME406 with antenna installation.

3. Control, Operation Information

Refer to the Artex ME406 Operation Manual, P/N : 570-1600.

A self test of the equipment should be conducted in accordance with Section 1.6 of the Artex ME406 Installation Operation Manual, P/N : 570-1600 every 1-2 month.

4. Servicing Information

N/A

5. Maintenance Instructions

Refer to the Artex ME406 Maintenance Manual, P/N : 570-1600.

A self test of the equipment should be conducted in accordance with Section 2.8 of the Artex ME406 Installation Operation Manual, P/N : 570-1600 every programming maintenance.

The battery of the equipment needs to be replaced at least every 5 years. Refer to the Artex ME406 Maintenance Manual, P/N : 570-1600, Section 4.4.5.

6. Troubleshooting Information

Refer to Section 5 of the Artex ME406 Installation Manual, P/N : 570-1600.

7. Removal and Replacement Information

Refer to the Artex ME406 Maintenance Manual, P/N : 570-1600. If the unit is removed and reinstalled, a functional check of the equipment should be conducted in accordance with Section 8 of the Artex ME406 Installation Manual, P/N : 570-1600.

8. Diagrams

Refer to Section 2.7 of the Artex ME406 Installation Manual, P/N : 570-1600.

Refer to outfitting wiring diagram "AB Avionique, ELT Installation Artex ME 406, W.D. reference n° 25.66.01".

9. Special Inspection Requirements

N/A

10. Application of Protective Treatments

N/A

11. Data: Relative to Structural Fasteners

Antenna installation, removal and replacement should be in accordance with applicable provisions of AC 43.13-1B and AC 43.13-2A. Also, refer to Section 2.4 of the Artex ME406 Installation Manual, P/N : 570-1600.

12. Special Tools

N/A

13. Overhaul Period

On condition.

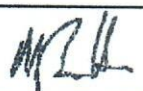
14. Airworthiness Limitation Section

N/A

INSTALLATION - ARTI * ME406 * *

AB
avionique

Mod. n° AB-09053
HB-YFR Lancair 320

Signed : 
Function : Avionics S320
Print name : André BUTTEX

Page 3 de 3
Date : 16.10.2009

Modification avionique n° **AB-09053**

« **Emergency Locator Transmitter Installation** » **ARTEX ME406**

OUTFITTING WIRING DIAGRAMS

- ELT INSTALLATION : ARTEX ME406 W.D. n° 25.66.01

HB-YFR

LANCAIR 320

S/N : 503

ELT ARTEX ME406

ELT D-SUB
CONNECTOR
ARTEX P/N : 150-1130

LIGHT 2
RESET 1 6
RESET 2 13
EXTERNAL ON 14
G-SWITCH LOOP 5
G-SWITCH LOOP 12
GROUND 7

AUDIO POWER 8

ELT ANTENNA

P/N : 453-6603

TO DIRECT BATTERY BUS

1A

N/C

AUDIO INDICATOR
P/N : 452-6505

BLACK
RED

REMOTE PANEL SWITCH

+14 VDC UNSWITCHED POWER
+28 VDC UNSWITCHED POWER

P/N : 345-6196-04

ELT WHIP ANTENNA
ARTEX P/N : 110-773

CABLE ASSY ARTEX P/N : 611-6013-04

— — EXISTING
— — NEW

NOTE :

UNLESS OTHERWISE SPECIFIED
WIRE GAUGE IS G22

AB AVIONIQUE
Chemin de l'Aérodrome
1400 Yverdon-les-Bains

ELT INSTALLATION

ARTEX ME406

Modification No. : AB-66053	Rev. : 0
Immatriculation : HB-YER L'ANCAIR 320	S/N : 503
Dessiné : S. ROVERANO	Contrôlé : A. BUTTEX
Date : 18.10.2009	W.D. n° 25.66.01



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of the Environment, Transport, Energy and
Communications DETEC

Federal Office of Civil Aviation FOCA
Design and Production

Minor Change Approval

FOCA Reference: **MOD 08-184-fam**

Aircraft registration: **HB-YFR**

Applicability: **Eigenbau Lancair 320
S/N 503**

Applicant: **Claude Mollet / Hans-Ulrich Jost
Rue Ste. Marguerite 2
1950 Sion, Switzerland**

Date of Application: **30.05.2008**

Title/Description: **Exchange to GTX-328 Mode S XPDR**

Regulation basis: **Swiss VLL Chp 8; SR 748.215.1; Section 2**

Approval statement

The Swiss Federal Office for Civil Aviation, Design and Production section, hereby confirms that the applicant has presented satisfactory evidence of compliance with the applicable airworthiness requirements in respect of the Change identified above.

Certification Basis:	FAR 23 / JAA TGL 13 for the change
Reference documents:	Master Document List, Doc. No. AB-08013
Limitations and conditions:	None

This approval and associated data shall remain valid until surrendered, withdrawn or otherwise terminated.

Swiss Federal Office of Civil Aviation
FOCA Design and Production

Ph. Voisard, Manager Design and Production

Date of approval: **28.11.2008**

Markus Farner, Certification Engineer



FOCA Issuing Office to which any other communications with respect to the above should be sent:

Federal Office of Civil Aviation
Design and Production
CH – 3003 Bern

markus.farner@bazl.admin.ch
Tel +41 31 325 93 67
Fax +41 31 325 93 24

Claude Mollet
Rue Sainte-Marguerite, 2
1950 Sion

Propriétaire/Exploitant : Claude Mollet
Adresse : Rue Ste.-Marguerite, 2 - 1950 Sion
Tél. : 027 321.17.77

Immatriculation :
HB-YFR

Date (j-m-a) : 19.11.2008 **RAPPORT DE TRAVAIL N° :** **RT-08013** Page 1 de 1

ANNEE 1993	Constructeur	Type	N° série	TSN	TSO
Cellule	Construction amateur/CH	Lancair 320	503	N/A	N/A

Travaux exécutés le : 18.11.2008 à Lausanne

Raison des travaux : ATC Replacement : "Garmin GTX-328 Mode S"

Modification avionique n° **AB-08013**, selon Notice of Modification (NoM) datée du 30.05.2008
Réf. OFAC : **08-184-fam**

Equipement déposé :

1	ATC King	KT-76A (Mode A/C)	P/N : 066-1062-10	S/N : 129009
1	Altitude digitizer	ACK	P/N : ACK-A30	S/N : 85698

Equipement installé :

1	ATC Garmin	GTX-328 (Mode S)	P/N : 010-00634-01	S/N : 13K011328
1	Altitude digitizer	ACK	P/N : ACK-A30 Mod. 8	S/N : 111505

Liste des documents associés :

- Certificat de Conformité Sommaire
- Rapport de conformité selon "JAA Leaflet n° 13", rév. : 1
- Liste de conformité des équipements
- Calcul de masse
- Bilan électrique (courant continu)
- "Post installation checkout" (selon protocole constructeur)
- Electro-Magnetic Interference (EMI) ground test
- Schéma électrique du remplacement

Réf. doc.

CCS-08013
TGL n° 13
CE-08013
M-08013
DC-08013
Garmin I.M. P/N : 190-00420-04
EMI-08013
W.D. n° 34.52.01

Liste des documents remis à jour :

- Concession de radiocommunication
- Liste d'équipement avionique
- Weight & Balance manuel de vol

Le "Pilot's Guide" suivant est à disposition des équipages, à bord de l'aéronef :

- Garmin GTX-328 P/N 190-00420-03, Rév. : A

(.....) **Claude Mollet**

Signature :

Modification n° **AB-08013**

« ATC Replacement »

Post Installation Checks

AEROFLEX

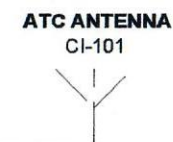
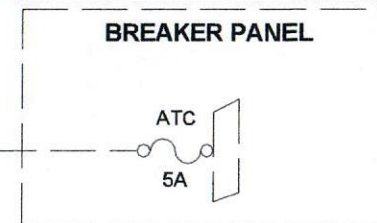
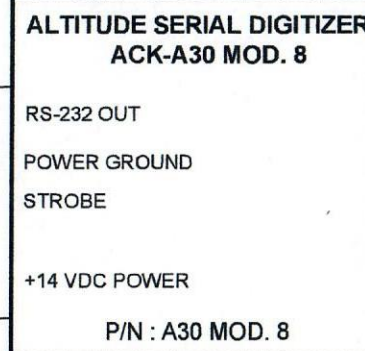
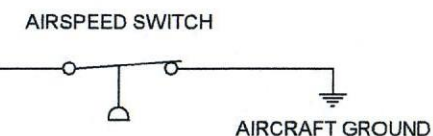
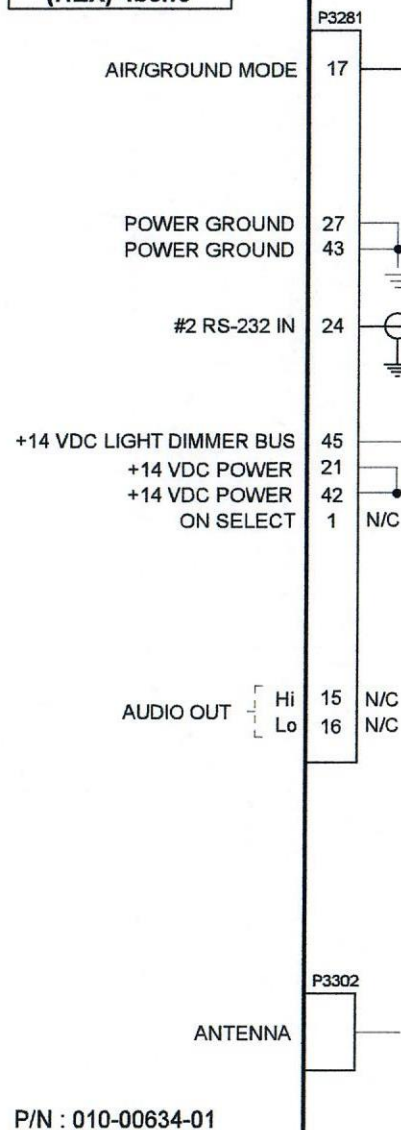
TEST SET IFR 6000

S/N 104002558

Dernière calibration effectuée le : 24-Jan-2008



**ATC Mode S
GARMIN GTX-328
(HEX) 4b3ff3**

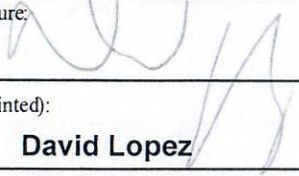


BENDIX/KING KT-76A REMOVED
ACK A-30 MOD.4 REMOVED

— — — — — EXISTING
— — — — — NEW

NOTE :
UNLESS OTHERWISE SPECIFIED
WIRE GAUGE IS G22

AB AVIONIQUE Chemin de l'Aérodrome 1400 Verdon-les-Bains			
ATC REPLACEMENT			
GARMIN GTX-328 (Mode S)			
Modification No. 1	AB-08013	Rev. 0	
Immatriculation	HB-YFR LANCAIR 320	S/N : 503	
Dessiné : S. ROVERANO	Contrôlé : A. BUTTEX		
Date : 03.09.2008	W.D. n° 34.51.01	Page : 1 de 1	

1. Approving National Aviation Authority Country: FAA/UNITED STATES		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 41295580111	
4. Organization: GARMIN International 1200 E 151st Street Olathe, KS 66062 TSOA production approval number PT3742CE						5. Work Order/Contract/Invoice Number: 41295580	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1.	GTX328,Black,Standard	010-00634-01 (Includes 011-01684-00)	N/A	18	N/A CERTIFIED TRUE COPY Garmin Europe Ltd certify that this document is a true copy of the authorized release certificate. The original certificate is maintained on file at our facility  Paul Morrow Quality Manager Garmin Europe Ltd	NEW	
13. Remarks EXPORT, this part meets the special requirements of UNITED KINGDOM s/n: 13K010858, 13K011302, 13K011303, 13K011305, 13K011306, 13K011308, 13K011310, 13K011311, 13K011314, 13K011315, 13K011316, 13K011318, 13K011319, 13K011323, 13K011324, 13K011326, 13K011328, 13K011329							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No:		20. Authorized Signature:		21. Approval/ Certificate No.:	
		ODARF240087CE		N/A		N/A	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date (m/d/y):	
David Lopez		Feb/15/2008		N/A		N/A	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/ assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in Block 1.							
Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: CJW 20080181 (PAGE 1 OF 2)	
4. Organization Name and Address: EDMO Distributors, Inc. 12830 E. Mirabeau Parkway Spokane, WA 99216						5. Work Order/Contract/Invoice Number: 1002958	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	MAX DIM DIMMER CONTROL UNIT	9100-001-A	N/A	2	BATCH #: 4507	NEW	
2	ENCODER/42K/DUAL RS232/10-100'	A-30.8	N/A	12	111472, 111473, 111474 SEE REMARKS	NEW	
3	LIGHT WEDGE 3-1/8"14V/ALT CUT	LW3014AA	N/A	6	SN: -----	NEW	
13. Remarks: EXPORT TO: SWITZERLAND 1: 9100-001-A SEATON ENGINEERING CORP SPOKANE VALLEY, WA PACKING SLIP 1441 DATED 12/11/2007 EDMO PO 81919; PACKING SLIP 1445 DATED 12/21/2007 EDMO PO 82086 PMA: SA01800SE 2: A-30.8 ACK TECHNOLOGIES, INC. SAN JOSE, CA PACKING SLIP 19427 DATED 1/22/2008 EDMO PO 82506 TSO: C88a S/N: 111478, 111491, 111492, 111494, 111495, 111499, 111500, 111501, 111505 3: LW3014AA NULITE INSTRUMENT LIGHTING SYSTEMS TYLER, TX PACKING SLIP 13463 DATED 1/08/2008 EDMO PO 82184 PMA: PQ876SW INSPECTED AND IS IN CONDITION FOR SAFE OPERATION EDMO DISTRIBUTORS, SPOKANE, WA INV. 1002958 DATED 02/21/2008 THE END:							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/Authorization No.: DART636352NM		20. Authorized Signature: 		21. Approval/Certificate No.: 	
17. Name (Typed or Printed): Charles J. Wright		18. Date (m/d/y): February 22, 2008		22. Name (Typed or Printed): 		23. Date (m/d/y): 	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

RAPPORT DE TRAVAIL



Rapport de travail n° : HB-YFR / 21184
Client : MOLLET Claude
Adresse : Rue de Granois
1965 Savièse

Fin du travail : 08.10.2001

Type	S/N	Année	TSN	TSO	Remarques
Aéronef :		-	270 : 00		
Moteur 1 :		-			
Moteur 2 :		-			
Hélice 1 :		-			
Hélice 2 :		-			

Travaux exécutés

- Dépose et envoi du XPDR Narco AT 150 pour réparation (appareil pas réparable)
- Dépose du rack existant
- Pose d'un nouveau rack pour KT76A
- Pose d'un nouveau transponder KT76A S/R129008
- Installation selon manuel de montage
- Test de l'installation
- Dépose et pose de l'encodeur après envoi pour réparation
- Test de l'installation complet avec banc test Palma AT600 et inscription selon consigne de navigabilité HB2000-460
- Remarque : aucune influence sur le poids et centrage

Je confirme qu'une attestation d'entretien a été établie
pour les travaux ci-dessus:

Lic. cat. C N°: 1025 / JRD
Sion, le 21.12.2001

LIC F.O.C.A. N° 077
FARNER AIR SERVICES SWISS SA SION

Signature :

1. Country Switzerland		2. Swiss Federal Office for Civil Aviation (A member of the Joint Aviation Authorities)		JAA FORM ONE Authorised Release Certificate		3. Certificate Ref. No. M 4021	
4. Organisation ZIMEX AVIATION MAINTENANCE A member of the Zimex Aviation Group				Postfach CH - 8058 Zürich-Flughafen Switzerland		Tel. ++41 1 815 53 30 Fax ++41 1 815 53 31 Telex	
				5. Workorder / Contract / Invoice 30730			
6. Item	7. Description	8. Part No.	9. Eligibility*	10. Qty.	11. Serial / Batch No.	12. Status / Work	
1	ALTITUDE REPORTER	AR-850	VARIOUS	1EA	85511	INSPECTED	
13. Remarks INSPECTED ACCORDING TO TSO C-88							
Limited life parts will normally be accompanied by maintenance history including life used.							
14. ☐ Airworthiness ☐ Conformity only Certifies that the part(s) identified above except as otherwise specified in block 13 was (were) manufactured/inspected in accordance with the applicable design data and with the airworthiness regulations of the stated country (see over).				19. ☒ JAR 145.50 Release to service ☐ Other regulation specified in block 13 Certifies that the work specified above except as otherwise specified in block 13 was carried in accordance with JAR 145 and in respect to that work, the part(s) is (are) considered ready for release to service (see over).			
15. Signature		16. Approval Reference Number		20. Signature 		21. Approval Reference Number FOCA - 089	
17. Name		18. Date (d/m/y)		22. Name E. KELLER		23. Date (d/m/y) 26. JULY 2001	

1. UNITED STATES		FAA FORM 8130-3 AIR WORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration				3. System Tracking Ref. No. 49514	
4. Organization HONEYWELL INTERNATIONAL INC. 23500 W. 105TH STREET OLATHE, KANSAS 66061						5. Work Order/Contract/Invoice 49514	

6. Item	7. Description	8. Part Number	9. Eligibility*	10. Quantity	11. Serial/Batch No.	12. Status/Work
1	KT 0076A MODE 'C' TRANSP ONDER	066-1062-10	TSO Article N/A	1	129009	NEW
2	KT 0076A TRANSPONDER INS TALLATION KIT	050-01577-0001	TSO Article N/A	1	4/4	NEW
3	KA 0060 KA 0060 ANTENNA	071-01591-0001	TSO Article N/A	1	00103898	NEW

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.

13. Remarks EXPORT SWITZERLAND	
--------------------------------	--

14. New ☒ Newly Overhauled ☐ Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met.		19. Return to Service in Accordance with FAR 43.9 Certifies that the work specified in Work 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.	
15. Signature 	16. FAA Authorization No. DMIR501558CE	20. Authorized Signature	21. Certificate No.
17. Name (typed or printed) HENRY L. MILLER III	18. Date 7/16/2001	22. Name (typed or printed)	23. Date

AIR WORTHINESS APPROVAL TAG: USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases the aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

The FAA Form 8130-3 and JAA Form One are equivalent. Other countries such as Canada also have equivalent acceptable documents.

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: CJW20030123	
4. Organization Name and Address: EDMO Distributors, Inc. 12830 E. Mirabeau Parkway Spokane, WA 99216						5. Work Order/Contract/Invoice Number: EDMO INVOICE #744521WA	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1 1 1	ALTITUDE ENCODER/30K	A-30.4	TSO ARTICLE N/A	10	(SN: 85334, 85474, 85698, 85690, 85685, 85704, 85480, 85699, 85683, 85697)	NEW	
13. Remarks: EXPORT TO: CONFEDERATION OF SWITZERLAND ACK TECHNOLOGIES INC. SAN JOSE, CA. PACKING SLIP INVOICE #15684 DATED 08/04/2003 EDMO P.O. 59712 ACK TECHNOLOGIES INC. SAN JOSE, CA. PACKING SLIP INVOICE #15641 DATED 07/23/2003 & INVOICE #15665 DATED 07/28/2003 EDMO P.O. 59546 TSO C88a MOD 4 INSPECTED AND IS IN CONDITION FOR SAFE OPERATION. EDMO INVOICE #744521WA THE END:							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.			19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
15. Authorized Signature: 		16. Approval/Authorization No.: DART636352NM		20. Authorized Signature: 		21. Approval/Certificate No.: N/A	
17. Name (Typed or Printed): Charles J. Wright		18. Date (m/d/y): 08/12/2003		22. Name (Typed or Printed): N/A		23. Date (m/d/y): N/A	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

19501 144th Ave NE, Suite C-500
Woodinville, WA 98072

Date	Invoice #
2/25/2004	958

Bill To
Claude Mollet CH-1965 Rue de Granois, Saviese Switzerland

Ship To
Same

S.O. No.	Salesman	Ship Date	Via	F.O.B.
894	GCT	2/25/2004	BAX Global	

Quantity	Part Number	Serial Number	Description
1	100114-000	1765	EFIS-D10
1	100096-000	10-31-03	Battery Pack
1	Bax Global		Shipping

[illegible]

1765



DYNON AVIONICS

EFIS-D10

Installation Guide

*** It is the installer's responsibility to ensure a correct installation. ***

Revised: Thursday, September 11, 2003

Copyright 2003 by Dynon Avionics Inc.

AIR SPEED INDICATOR

- 1 km/h = 1,609 MPH. -

Reference : ASI TEST - Type T 450 + Correcting Table - SN 1167

Speed difference ΔV after 1 min at (2/3 of FSD ; $\Delta V \leq 5\%$)

Theoretical value : accorded to the tolerance (Caution : no Correction)

Aircraft HB-LFR

Date 1.2.07

Sign Sign

Value in Km/h			Value in MPH			Value in Kt		
Indicator	Asi-test	Value Asi-test	Indicator	Asi-test	Value Asi-test	Indicator	Asi-test	Value Asi-test
40	35 - 45		40	59 - 69	60 60	40	69 - 79	
60	55 - 65		60	91 - 101	93 94	60	106 - 116	
80	75 - 85		80	124 - 134	126 127	80	143 - 153	
120	115 - 125		100	156 - 166	160 162	100	180 - 190	
140	135 - 145		120	188 - 198	192 193	120	217 - 227	
150	145 - 155		140	220 - 230	222 223	140	254 - 264	
200	195 - 205		160	252 - 262	253 253	160	290 - 302	
250	245 - 255		180	284 - 295	285 285	180	327 - 340	
300	294 - 306		200	315 - 328	315 /	200	363 - 378	

COMPENSATION SELON CTI N° 20.040-00 (édition du 31.3.97)

AVION HB- YFR DATE: 26.1.07 LIEU: LSGS RAPPORT:

☒ avion VFR +/- 10°

☐ avion IFR +/- 5°

Le contrôle s'effectue avec le moteur en marche (2000 t/min) radio et instruments enclenchés: radio-navigation, indicateurs, feux de navigation, flash, feux anticollision

Compas magnétique

For	N	30	60	E	120	150
Steer	<u>358</u>	<u>030</u>	<u>063</u>	<u>095</u>	<u>122</u>	<u>155</u>
For	S	210	240	W	300	330
Steer	<u>8</u>	<u>210</u>	<u>237</u>	<u>265</u>	<u>302</u>	<u>330</u>

185

Compas commandé à distance

For	N	30	60	E	120	150
Steer						
For	S	210	240	W	300	330
Steer			<u>24</u>			

237

Compensation effectuée par: MOLLET

Pose table (s) effectuée : Signature:

1.11 TRANSPONDER (CT-I 20.100-20) *KT 76 A* *SN: 129009*

- Reference : IFR Generator ATC-600A : 10
- Frequency (1090 +/- 3 MHz / Mode A Code 0000) : 10
- SLS 0 dB (<1% Reply / Mode A) : 10
- 9 dB (90% Reply / Mode A) : 10
- Sensitivity (-73 +/- 4 dBm) Mode A : 10
- Mode C : 10
- Diff. Sensitivity (< 1 dBm) : 10
- Ident (env. 30 s) : 10
- Interrogation [(P2/P1 (2 us))] : 10
- Framing [F2/F1 (F2 with 0,45 us)] : 10
- Code : 10

1.12 ENCODING ALTIMETER

- Set the altimeter of 1013 mbar or 29.92 inch
- Read the altitude
- Set the transponder on "altitude report" or "C Mode"
- Compare the reading altitude on altimeter and the altitude given by the alticodeur on the generator
- Make the vacuum on the static line until 5000 ft and prodeed the some manner as above

HB- 2006- 500

Sion le 19.9.07

Je confirme qu'une attestation d'entretien a été établie pour les travaux ci-dessus :



LIMITED WARRANTY

THIS MODEL A-30 DIGITIZER IS WARRANTED BY ACK TECHNOLOGIES INC. AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF THREE YEARS FROM IT'S MANUFACTURING DATE. THIS WARRANTY IS VALID ONLY IF THE ENCLOSED WARRANTY CARD HAS BEEN COMPLETED AND RETURNED TO ACK TECHNOLOGIES INC. WITHIN 15 DAYS OF IT'S INSTALLATION. THIS WARRANTY IS LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE MODEL A-30 DIGITIZER WHEN RETURNED FREIGHT PREPAID TO OUR MANUFACTURING FACILITY. THIS WARRANTY DOES NOT INCLUDE REPAIR OR REPLACEMENT OF ANY UNIT WHICH HAS BEEN IMPROPERLY USED, INSTALLED, OR WHICH IS PHYSICALLY DAMAGED. EXCEPT AS PROVIDED HEREIN ACK TECHNOLOGIES INC. MAKES NO EXPRESS WARRANTIES, AND ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN IT'S DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES SET FORTH HEREIN. ACK TECHNOLOGIES INC. SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR MISUSE OF THIS PRODUCT. EXCEPT AS PROVIDED HEREIN NO EMPLOYEE, AGENT, DEALER, OR OTHER PERSON IS AUTHORIZED TO GIVE ANY WARRANTIES OF ANY NATURE ON BEHALF OF ACK TECHNOLOGIES INC.

YOU MAY HAVE ADDITIONAL LEGAL RIGHTS WHICH VARY FROM STATE TO STATE

ACK TECHNOLOGIES INC.

AVIONICS FOR GENERAL AND COMMERCIAL AVIATION

440 WEST JULIAN STREET
SAN JOSE, CALIFORNIA 95110

PHONE 408 287-8021

FAX 408 971-6879

E MAIL INFO@ACKAVIONICS.COM

ACK TECHNOLOGIES INC.

MODEL A-30 ALTITUDE DIGITIZER OPERATION MANUAL INSTALLATION MANUAL

MOD 8 GRAY CODE OUTPUT TO 42,000 FEET TWO RS 232 OUTPUTS

MOD 4 GRAY CODE OUTPUT TO 30,750 FEET

Visit our website www.ackavionics.com
for the latest service bulletins and
installation information before
completing installation.



FAA TSO C-88a
APPROVAL

THIS MANUAL IS FOR USE
WITH MODEL A-30 ENCODERS
SERIAL NUMBER 85,000 AND
ABOVE (MOD 4 AND ABOVE)

The conditions and test required for TSO authorization of this article are minimum performance standards. It is the responsibility of those desiring to install the article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards.

MANUAL PART NUMBER A30M REVISION 04 12/02/2005

De : Claude Mollet <claude.mollet@netplus.ch>
Objet :
Date : 31 août 2009 14:33:56 GMT+02:00



▶ 1 pièce jointe, 178 Ko



***Experimental Aviation of Switzerland
Acceptance Group***

CONFIRMATION OF MINOR ALTERATIONS

We hereby confirm that we have accepted the following minor alterations according to "EAS-Prozessablauf, Kapitel 5, Änderungen am Luftfahrzeug":

- **Aircraft Type:** Lancair 320
- **Immatriculation:** HB-YFR

List of accepted minor alterations:

- **Installation of ELT 406MHz**

The owner of the aircraft should update his aircraft documentation accordingly.

For the EAS Acceptance Group:

Martin Pohl

Jona, 31. August 2009

De : "Martin Pohl" <mpohl@pohltec.ch>
Objet : Minor Alteration HB-YFR
Date : 31 août 2009 11:09:17 GMT+02:00
À : <claude.mollet@netplus.ch>
▶ 1 pièce jointe, 178 Ko

Cher Monsieur Mollet

Merci pour l'envoi de la notification de modification (NoM) de votre Lancair.

Ci-joint, vous recevrez la confirmation de l'EAS, que c'est une modification mineure et que la modification peut être faite de manière informelle.

Je vais enregistrer les documents dans votre EAS dossier interne.

Bon vol!

Avec mes meilleures salutations
Martin Pohl

Martin Pohl
Bubikerstrasse 56
CH-8645 Jona SG
Switzerland

home: +41 (0)55 240 28 16
mobile: +41 (0)76 343 28 16
email: mpohl@pohltec.ch
web: www.pohltec.ch



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WORK REPORT FOR ACCESSORIES

REMOVED FROM: HOMEMADE A/C REG.: HB-YFR TYP: LANCAIR 320
A/C HOURS TSN: ---- CY. S/NEW: ----
REP.N°: ELT-133 ITEM: ----- DATE: 09.03.2015

PART NAME: ELT ARTEX ME406
P/N: 453-6603 S/N: 188-14603
TSN: ---- TSO: ---- CSN: ---- CSO: ----
DISCREPANCY: 6 YEARS INSPECTION

WORK ACCOMPLISHED: ELT ARTEX ME406, s/n 188-14603 tested, according to Maintenance Manual
- Battery replaced, according to Maintenance Manual
- ELT consumption in transmission: 3.6 A; steady state current: 83 mA; both results are in tolerance
- Unit reassembled

PUBLICATION REF.: Maintenance Manual ARTEX ME406 25-62-30 rev R date Oct 03/2013

EXCHANGED PARTS – MATERIEL SHEET

DESCRIPTION	P/N	S/N	QTY	FORMS
Battery pack	455-0012	365416-013	1	W.O 365454

FINAL INSPECTION: *[Signature]*

RA. Vassalli
AGV / 418

STORAGE TIME MAX.: ----

DATE: 09.03.2015

PRESERVED: {YES} {NO}

REMARKS: Next test : 03.2016

Service Technique
Case postale 27
CH – 1951 Sion

A.M.O. REF.: CH.145.0249

Tél.: +41 27 329 14 40
Fax: +41 27 329 14 39
pvassali@air-glaciers.ch



TEST REPORT : ELT / 133

ELT MODEL	KANNAD ME406
ELT S/N	188-14603
AIRCRAFT REGISTRATION	HB-YFR
AIRCRAFT OWNER	MOLLET CLAUDE

Battery expiration date	12.2021
Battery voltage	4.95 VDC
G switch function	Ok
121.5 MHz transmission power (20-26dBm)	22.4 dBm
121.5 MHz frequency (+ / - 3kHz)	121.4992 MHz
406.025 MHz transmission power (35-39dBm)	37.2 dBm
406.025 MHz frequency (+ / - 2kHz)	406.0278 MHz
121.5 MHz modulation	Ok
406 MHz signal correct (programmation)	Ok
ELT switch in position OFF for transport	Ok

Date of test	09.03.2015
Carried out by	Pierre-André Vassalli AGV / 418

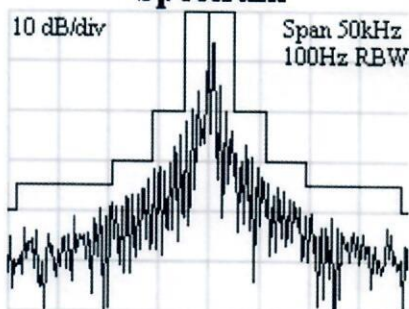
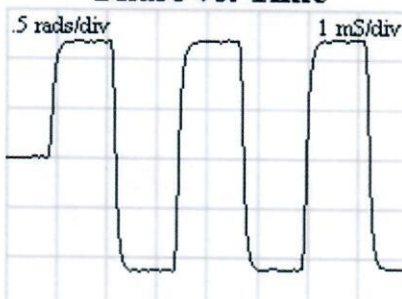
[WS Technologies Inc.](#)

Beacon Test Report

A1A64973635DAA1

Organization: AIR-GLACIERS S.A**Tested By:** P-A VASSALLI**Date:** 3/9/15 3:07:12 PM**Tester Model/Serial No./File Name:** BT100A/1039/Burst-27**Tester Cal Due Date:** Jan 8, 2017**Tester Temperature:** 20°C**PASS****FAIL****INITIALS:***AB***Notes:** Add text comments here.**15 Hex ID:** A1A64973635DAA1**15 Hex ID Checksum:** 5E866**Full Hex:** FFFED050D324B9B1AED50F57E0D0**Burst Mode:** Self Test Mode (Short)**Protocol:** ELT Aviation User Protocol**Country 269:** Switzerland**Aircraft Registration:** HB-YFR**Spare Bits:** 00**Auxiliary Radio:** 121.5 MHz**Emergency type:** unspecified**Activation type:** Auto**406 MHz Measurements****406 Frequency (INT REF):** 406.0278 MHz**406 Power (5 Watt) + CL (0 dB):** 37.2 dBm**Power Rise Time:** < 5 ms**Phase Deviation:** -1.12 +1.17 radians**Modulation Rise Time:** 177 μ s**Modulation Fall Time:** 177 μ s**Modulation Symmetry:** 0.0%**Modulation Bit Rate:** 399.8 bps**121.5 MHz Measurements****121 Frequency (INT REF):** 121.4992 MHz**121 Power (5 Watt) + CL (0 dB):** 22.4 dBm**Sweep Direction:** Downwards**Audio Frequency:** 187 Hz to 1312 Hz**Sweep Range:** 1125 Hz**Sweep rep Rate:** Out of Range**Modulation Factor:** 98 %**Duty Cycle:** 36 %**Power vs. Time****Spectrum**

v1.11

**Phase vs. Time**

DISCLAIMER: IN NO EVENT SHALL WS TECHNOLOGIES INC. OR ITS DISTRIBUTORS OR AGENTS BE LIABLE FOR ANY DAMAGES OR LOSSES INCURRED AS A RESULT OF THE USE OR FAILURE OF THIS MEASUREMENT EQUIPMENT.

1. Approving National Aviation Authority / Country Federal Office of Civil Aviation FOCA - Switzerland		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number AGV-796	
4. Organisation AIR-GLACIERS - Aéroport civil - CH-1951 SION - SWITZERLAND Tél. : ++41. (0)27.329.14.30 Fax : ++41. (0)27.329.14.39 www.air-glaciers.ch			5. Work Order/Contract/ Invoice ELT-133			
6. Item	7. Description	8. Part No.	9. Qty	10. Serial / Batch No.	11. Status / Work	
1	ELT ARTEX ME406	453.6603	1	188-14603	INSPECTED/TESTED	
12. Remarks Identity and issue of maintenance documentation used: In accordance with CMM ARTEX 570-1600 rev R Oct 03/2013 Component Hours: TSN = TSO = and Cycles: CSN = CSO = / Limited life parts will normally be accompanied by maintenance history including life used.						
13a. Certifies that the items identified above were manufactured in conformity to: ☐ approved design data and are in condition for safe operation ☐ non-approved design data specified in block 12			14a. ☒ Part-145.A.50 Release to Service ☐ Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work, the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature 		14c. Certificate/Approval Ref. No. CH.145.0249	
13d. Name		13e. Date (dd/mm/yyyy)	14d. Name P.A. Vassalli AGV / 418		14e. Date (dd/mm/yyyy) 09.MAR.2015	

EASA Form 1 - MF/145 Issue 2

USER / INSTALLER RESPONSIBILITIES

NOTE : 1. It is important to understand that the existence of the document alone does not automatically constitute authority to install the part/component/assembly.

2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Airworthiness Authority specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority specified in block 1.

3. Statements 13a and 14a do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.