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U.S Departm Transportation	
Federal Avia Administrat	

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only
Office Identification

inst	ructio	ons and	disposition o	f this	form. This	report is	requi		U.S.C. 14			bsequent revisio eport can result i		
1. Air		t Ma	Make					Model TB20GT						
		Serial No. Nationality and Registration						ration Mark						
2. 0	wne		me (As sho	own	on registra	tion cer	tifica	United States Address (As shown on registration certificate)						
		L					3	B. For FAA l	Jse Only	,				
								I. Unit Ident	tification	1			5. Type	
ı	Jnit		М	ake		Model			Serial No.		l No.	Repair	Alteration	
AIRFI	RAM	E	(As described in item 1 above)								х			
POWE	RPLA	ANT												
PROF	PELL	.ER												
APPL	IAN	CE T	уре											
		М	lanufacture	r										
					· · · · · · · · · · · · · · · · · · ·		6. C	onformity S	tatemen	ıt		'		
			e and Addi					Kind of Agen				C. Certificate		
					U.S. Certified Mechanic Foreign Certified Mechanic			(L	A Cert #)					
│					Certified Repair Station			\dashv						
<u> </u>						Manufacturer								
have	been	n made ir		e with	n the require	ments o						on the reverse o ns and that the i		
Date								Signature of	f Authoriz	zed Individua	ıl			
						7. <i>E</i>	hppro	oval for Retu	ırn to Se	ervice				
			authority gi or of the Fe						entified in			pected in the r REJECTED	nanner pre	scribed by
BY		FAA FI	•		Manufactu	urer		Inspection Authorization		tion Other (Sp		ther (Specify)		
		FAA De	esignee		Repair Sta	ation		Person App Canada Ain	worthines	s Group				
Date o Rejec		proval o	or		tificate or signation N	0.		Signature of	f Authoriz	zed Individua	il			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

1.) <u>INTRODUCTION:</u> Socata TB20 REG. NO: SERIAL NO:

KLN 94 installed <u>by aircraft manufacturer</u> with IFR enroute and terminal approval etc. Installation meets the requirements for IFR installation with the inclusion of the attached AFMS.

2.) **DESCRIPTION:**

- A. Nothing removed
- B. Nothing installed
- C. Unit is interfaced to the following installed equipment:
 - i. KFC225 autopilot
 - ii. SN3500 HSI
 - iii. Shadin fuel totalizer
 - iv. KMD550 MFD
 - v. KEA130A.
- D. This installation meets the requirements of AC20-138A. All GPS system displays and annunciators are within the pilots normal field of view and all GPS system controls are within easy reach of the pilot. The system switches, annunciators, displays and flight director/ autopilot and instruments are compatible with this aircraft.
- E. A ground and flight evaluation was conducted and the system meets the requirements of AC20-138A Paragraph 22 and 23. GPS is adequately isolated from the harmonic interference caused by VHF transmitters. A report of the flight evaluation is attached. Flight evaluation conducted by:

Name:	_		
US Private Pilot Certificate Number XXXXXXX			
Signature:			
		arp /am . p	 I DDD O I GY

- F. Removed Placard "GPS APPROVED FOR BRNAV, SID/STAR AND APPROACH MODE PROHIBITED" and installed Placard "GPS NOT APPROVED FOR IFR PRECISION APPROACH or RNAV SID, STAR, ODP". See AFM Supplement for limitations.
- G. This aircraft is equipped with other approved and operational means of navigation appropriate to the route being flown.
- H. The equipment was tested and found to function properly with no interference to any other system or flight control.

[X] Additional Sheets Are Attached

- 3.) <u>CONTROL/OPERATIONAL:</u> An Approved Flight Manual Supplement (AFM) dated is required to be in the aircraft. See AFM Supplement for limitations.
- 4.) **SERVICING INFORMATION:** N/A
- 5.) **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:** See section 1.9 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS from the Bendix King install manual 006-10599-0004 Rev 4 Jan 2003: "The instructions for continued airworthiness given in the TC or STC approvals for this product supplements or supersedes the instructions for continued airworthiness in this manual.

Most Honeywell products are designed and manufactured to allow "on condition maintenance". On condition maintenance is described as follows; There are no periodic service requirements necessary to maintain continued airworthiness. No maintenance is required until the equipment does not properly perform its intended function. When service is required, a complete performance test should be accomplished following any repair action. Consult the appropriate unit Maintenance/Overhaul Manual for complete performance test information."

- 6.) **TROUBLESHOOTING INFORMATION:** Basic electrical troubleshooting procedures apply to the wiring and connector installation.
- 7.) **REMOVAL AND REPLACEMENT INFORMATION:** The KLN94 unit is a slide in / slide out unit. Care should be taken to ensure proper mating of connections in tray and on unit upon installation.
- 8.) **DIAGRAMS FOR ACCESS:** N/A
- 9.) SPECIAL INSPECTION REQUIREMENTS: N/A
- 10.) **APPLICATION OF PROTECTIVE TREATMENTS:** N/A
- 11.) SPECIAL HARDWARE DATA: N/A
- 12.) **LIST OF SPECIAL TOOLS:** N/A
- 13.) **COMMUTER AIRCRAFT INFORMATION:** N/A
- 14.) **RECOMMENDED OVERHAUL PERIODS:** No changes as a result of this installation.
- 15.) **AIRWORTHINESS LIMITATION SECTION:** The Bendix-King KLN94 unit remains airworthy provided it operates as specified in the Approved Aircraft Flight Manual Supplement and has the appropriate current database installed.
- 16.) **REVISION INFORMATION:** To revise these Instructions for Continued Airworthiness, a letter is to be sent to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. Upon receipt, the FSDO will reply as necessary for approval.

[X] Additional Sheets Are Attached

GPS IFR FLIGHT TEST REPORT

Aircraft Model: Conduct a function 1. Verify overall other equipme	onal flight eval		despitation. Pre-	XXXXX			XXXXXXX	Initials
1.Verify overall		ation by t	he installer c	covering th	un was week in the control of			Fra Sadas For
1.Verify overall		ation by t	he installer o	covering th				
	an alarma a Ca				в тоножив т	tems:		muns
			GPS equip	nent, inclu	ding interfac	e with		94
2. If coupled, ve autopilot flig	erify the effect(ht director resp		equipment fa	ailure (ope	n circuit brea	iker), inc	luding	PH
3. If interfaced the auto pilot	with an autopil- and /or flight o					g respon	se while	PH
4. Displayed GI	PS navigation p	arameters	on all interfa	iced cockp	it instrument	s.		PH
5. The effects(s pertaining to), if any, of swi the GPS install		transfer fun	ctions, inc	luding electri	ical bus s	witching,	PH
	determine sati ad all other onb on transceivers	oard equip						PH
	the accessibili allation and if o						ols pertaining to	PH
	uity of navigat hese maneuver						grees bank. At no	<i>PH</i>
	layed cross-trac rations to verif h), both with a	y FTE is le	ss than 1.0 r	ımi (enrou	te and approa	ach trans	ition) and 0.25	PH
FOR EQUIPME	NT APPROVE	D FOR AP	PROACH:					
	TERNAL DAT	ABASE A					PPROACH FIXES THE EQUIPMENT	
APPROACH#1	NAME _	EGKA	RNAV	02	RESUL	TS	SATIS.	
APPROACH #2	NAME _	EGKA	RNAV	20	RESUL	TS _	SATIS.	
APPROACH #3	NAME _	EGMP	RNAV	2/	RESUL	TS _	SATIS	
I certify that the above listed per			t informatio	n is correc	t and that the	GPS eq	tipment as installed	I meets the
	ature: <i>FA C</i> 7	ORY	INSTAC		Date:	200	2	
Installers Sign	, Avan-				Date	4/4/	2012	· · · · · · · · · · · · · · · · · · ·
Installers Sign Pilot Signature	25							