	DEPARTMENT OF TH		Form Approved					
	FEDERAL AVIATION A		TRATION			Budget Bureau No. 04=R060.1		
	MAJOR REPAIR AN		OFFIC			FOR FAA USE ONLY		
	(Airframe, Powerplant, Pr	opeller, or Appl	ianco)	ndari	Jine Delais			
INST-RUCT	TIONS: Print or type all entries. See one and disposition of this form.	FAR 43.9, FAR 43 A	ppendix B, and	AC 43.9-1	(or subsequent	revision t	hereof)	
AIR CRAFT	MAKE REPUBLIC	RC-3	C-3					
	SERIAL NO. 765	NATIONALITY AND REGISTRATION MARK N6499K						
	NAME (As shown on registration certif	ADDRESS (A	ADDRESS (As shown, on registration certificate)					
2. OWNER	EDMOND F. FREEMAN Abilene,			_	ridge Drive Tx. 79605			
		The 3alf690 than USE	n owie d herein o	complies	with the applic	abi 2		
airworthiness requirements and is approved for the above des- cribed aircraft, subject to conformity inspection by a person								
		duthorized in FAR	Ject to contorm 43 section=427	ity inspect	tion by a persor	1		
	graph offering the			201	/			
4.	ាន នេះ និង សេខាស្ត្	G-11-86		es KEN				
		(Date)	(Signature	of FAA I	nspector.		· · · · · ·	
	4. 0	NIT IDENTIFICATION	2M-GADO-	7, Lubboo	K, lexas)	5.	TYPE	
. UNIT	MAKE	MODEL		SE	RIAL NO.	REPAIR	ALTER-	
AIRFRAME	***************************************	(As described in Item 1	above)				×	
POWERPLANT	AVCO LYCOMING	GO-480-G2D6		L-197	7-34	·	×	
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PROPELLER				•				
	TYPE				· · · · · · · · · · · · · · · · · · ·			
APPLIANCE							l	
v	MANUFACTURER							
	L	6. CONFORMITY STA	TEMENT		·	Ц	L	
	AGENCY'S NAME AND ADDRESS		KIND OF AGEN	ICY	C. CER	TIFICATE	NO.	
	d F. Freeman		ICATED MECHANIC	2.003				
	estridge Drive		FOREIGN CERTIFICATED MECHANIC			1580607		
Abile	ne, Tx. 79605		CERTIFICATED REPAIR STATION					
D. I certify	that the repair and/or alteration m			4 above a				
RUBUNDE	ms nereto nave been made in accord	ance with the require	ments of Part 43	of the U	.S. Federal Aviat	ion Regu	irse or lations	
	the information furnished herein is							
DATE /	5-8h	SIGNATURE C	OF AUTHORIZED	INDIVIDU/	AL.			
· O	3-86	DGN].	m				
	7.	APPROVAL FOR RETURN	TO SERVICE					
Pursuant to the Adminis	the authority given persons specified trator of the Federal Aviation Admini	below, the unit idensetration and is	nified in item 4 w	vas inspect LEJECTED	ed in the manne	r prescrib	ed by	
INS	FLT. STANDARDS MANUFACTURER	XX INSPECTION AUTH	IORIZATION	OTHER (Specif	5)			
BY	DESIGNEE REPAIR STATION	CANADIAN DEPA OF TRANSPORT I		•.		. 15 1.		
DATE OF APP	ROVAL OR CERTIFICATE OR	SIGNATULE A	AUTHORIZED	INDIVIDI	JAL			
REJECTION	DESIGNATION N		- / / .			٠. ٠		
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FAA Form :	337 (7-67)					- 11	8320)	

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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 (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

C.H.T. and E.G.T. Monitering System

- Installed J-type Thermocouple, Westberg P/N 712-7DX on each cylinder in the hole provided.
- Installed K-type Thermocouple, Westberg P/N 712-5W on each cylinder exhaust pipe approximately 3.75 inches from cyl. flange in 3/16" hole drilled in pipe.
- All Thermocouple leads routed and clustered beneath #3 & #4 cyl. respectively and clamped to engine mount assembly with Adel clamps.
- Additionally, leads spiral wrapped and routed direct to each wing root area, left bank cyl. leads to left wing root and right bank cyl. leads to right wing root.
- 5. Isothermol cold reference junction provided in each wing root by installing a Bud Box, P/N CU-124, on the inside of the bottom wing faring, using P/N AN526R screws and P/N MS21059L3 Nut Plates. Reference provided to 0.A.T. by installing a small scoop on the outside of the faring, below each box.
- Located within the reference junction are Two terminal strip's, P/N TRW-6-141, to which the Thermocouples are attached.
- 7. Thermocouple cylinder selection is provided for by installing a six position switch. Westberg P/N 254-21EDP, Knob and position placard in head liner above pilot's position, connected to the C.H.T. and E.G.T. indicators, previously installed on F.A.A. Form 337 dated April 24, 1984.
- 8. Cold reference junctions and switch assembly are connected together using two Beldon P/N 8456 multi-conduit cables, 6 ft. long(approx.) and four terminal strips at the switch assembly to which the switch is soldered. The cables are routed from the wing roots through the forward vertical firewall, protected by rubber grommets along the top of the cabin above the headliner, tie wrapped as necessary to the switch assembly. General layout of system as per attachement.
- 9. All major components manufactured by Westberg Mfg. Co., Inc. and meet the requirements of T.S.O. C-43.
- 10. System calibrated at 70°F-0.A.T. For O.A.T. below 70°, the correct readings would be the meter reading minus the number of degrees O.A.T. is below 70°F. For O.A.T. above 70°F add that amount to the meter reading.
- 11. Additionally, C.H.T. portion of System calibrated for flight test purposes using a milivolt meter, Simpson 460, read out. Calibration accomplished using a C.M.S., Inc. ASTM-55HL thermometer to monitor the cold reference junction, and an ERTCO, ASTM-7F thermometer to monitor the hot reference junction. With all thermocouples in hot oil, the corrections noted in the attachment are applicable.
- 12. Components manufactured or installed using standard aircraft maintenance practices
- 13. Weight and balance, equipment list revised.

--END

M ADDITIONAL SHEETS ARE ATTACHED

AUS GOVERNMENT OR NT NG CHEUSE 1975 771-00 - 29

			C.H.T. C	C.H.T. CALIBRATION		N6499K
		171 200 101 200 101 93.3				%F(T2)
C12#	123456	3.6 3.6 3.6 3.6 3.6 3.7	6.8 6.8 6.8 6.8	9.9 9.8 9.9 9.9 9.8 9.9	13.2 13.1 13.2 13.2 13.2	(M _{V1}) MV, DIFF, BETWEEN T ₁ + T ₂
	OLD MCTION	76	76 24.4	77 25	78 25.5	°F(T,)
	BLES	1.25	1,25	1.27	1,3	(MV2) Ti TO MV
)	4.85	8.05	11,17	14.5	(MV3) MVI+MV2
		92.5.	151	207	269	(T3) Mv3 To °C
		+,8	-2.2	-2.6	-7	CORRECTION To To C

AJJAACHMENT #2 N6499K, PC-3 S/N 765 F.A.A. FORM 337 DAJEO:

PACE 3 OF 3 PACES

FAA AIRCRAFT REGISTRY 4-15-89

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