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R	EPAIR AND	ALTERATIO	N FORM (AIRCRAFT, PRO	PELLERS, ENGINES,	INSTRUMENT	(S)
- : : : : : : : : : : : : : : : : : : :	1 4 154	(SEE REVE)			FOR INSTRUCTION.		
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PROPELLER BLADE OR HUB	Hartzell		BC 12	±20-34	2215		
ENGINE	Prenklin		6 AS-215	-897	23633		
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				. 3	(Specify)	100	
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18-54010-2

INSTRUCTIONS

- This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine,
 or instrument.
- 2. When repairs and/or alterations are made which affect the operation limitations set forth in the Airplane Flight Manual or Form ACA-309, the aircraft shall not be returned in cervice until the operation limitations have been corrected by an authorized representative of the CAA.
- 3. Certificated mechanics must, in all cases, obtain approval of the repair and/or alteration from the CAA representative prior to returning the article to service.
- 4. The manufacturer of an aircraft, engine, propeller, or instrument, and a certificated repair station holding the appropriate rating may return the article to service without prior approval of an authorized GAA representative, provided the alteration and/or repair does not change any of the operation limitations.
- 5. Repair agencies will be guided as follows when completing this form.
 - a. For an Aircraft Repair and/or Alteration—Complete Items 1, 2, 3a, 4, 5, 6, and 7.

 Mechanic—Submit to CAA representative for inspection and approval prior to returning the article to service. Upon approval, the CAA representative will return the original copy to the mechanic who should submit it to the alteratt owner.
 - Manufacturer or Approved Repair Station—Submit original to aircraft owner, forward copy to CAA district office or CAA agent prior to returning article to service.
 - b. For a Component Installed in an Aircraft—Complete Items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, 6, and 7. Distribute copies as in a above.
 - c. For a Spare Component—Complete Items 3 (b, a, or d, whichever is applicable), 5, 6, and 7.

 Mechanic—Submit to GAA representative for inspection and approval. When approved, retain both copies of the form with the component until installation on an aircraft. At this time Items 1, 2, and 4 must be completed by the installing agency who will distribute the forms as follows: (No further approval of UAA is confired, only a log-book entry by the installing agency is necessary.) After installation, original form chould be submitted to aircraft owner, and copy forwarded to the nearest CAA district office or GAA agent.

Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to CAA representative for inspection or approval.

16-34010-2 U. S. SOYERNMENT PRINTING OFFICE

Empty Weight C.C.

Empty Weight 2139 124.13	265514.C
Ballest 52 4.5	234.0
Back Seat Removed 40 96.0	- 3840.0
Door Upholstery Removed -8 62.0	- 496,0
Cabin " = 11 26.0	- 1056.0

Permanent Life Raft &

- 11	BRIDGE ANTO MET					G 1.01	1.4
	Mae West	1 11	•	23		13.0	273.0
7	New Rupty Hea	ght	**, *	2153	12 17		260629.0
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	_ Most forward loading	Wto	Azm	icomonst -	Most Restward Arm	Moment
,	Empty Weight	2153	121.05	260629	2159 121.05	260629.0
	Pilot	170	62.0	10540.0	170 62.0	10540.0
	Passenger Front	170	62.0	10540.0	22.5 136.0	3060.0
	Passengers Rear-2	340	96.0	32640-0	207.4 116.0	12458.0
	011	22,5	136.0	3060.0	Wheels up diff.	2820.0
٠	Min. Fuel 22.9 gal.		116.0	12458-0	2453	289507.0
_	Total Weight	2963.0		329867.0		

Most forward 0.0. 121.3 Nost rearward C.O. 118.02

Approved Forward 0.0. Mait- 111.9 Approved Aft C.O. Mait- 118.3 Therefore the new C.O. limits fall within approved range.

Difference in radio weight between Bendix now installed and original Halligrafter is negligible.

OCT 3 1961

٠		FEDERAL	L AVIATION	AGEN	ICY	B	orm appro indgst Bur	ved. mii No. 41-B063.6.	
- MAJOR	REPATR AND ALTERATION	ON FORM (AIRFRAME, I	POWE	RPLANT. PROPEL				
1. AIRCRAFT	REPUBLIC STABRE	NO	RC+3		615	MATE	HATKORALITY AND REGISTRATION MAR 6386 K		
2. OWNER	ame (Pira, midde, ian) MARINE INTERNATIONAL BALVAGE COMPANY	DIAIMO V		14	(Street and number, city, a D2 WEST 8th ST, IE , PA.		ato)		
3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCORDANCE WITH CIVIL AERONAUTICS MANUAL 16.									
UNIT	MAKE	MODEL SERIAL NO.					HATURE OF WORK (Cârek) MAJOR REPAIR MAJOR ALTERATION		
a. AIRFRAME	***************************************	• (As described)	In Isam I abose) d	*****	***********	-	4 .	XXXX	
A. POWERPLANT	The alteration id	is approv	ed only fo	t th	above descri	ed a	ircra	ÈŁ	
- PROPERE	CEIVED	mity insp	ection by	a pe	reon authorize	in	CAR 1	3.11(Б).	
& APPLIANCE	CT -5 1961	9ep tember	28, 1961		ard Pontarelli eral Maintenan	e In	specto	·	
4. AIRCRAFT	WEIGHT AND BALANCE DA	This its case of a stalled is if applie	m must be con a spare compon n an aircraft, able.	npleter ent, it At this	by repair or alterat will not be complete time, it will be comp	ion age od until pleted b	such on y the in	lowever, in the mponent is in- stalling agency,	
. CATEGORY	EMPTY WEIGHT (Po	(stade)*	· EMPTY CE	TTER OF	GRAYITY (Inches from dutum)*	USEP	UL LOAD (Pounds)*	
HORMAL UTILITY	2204.4		,121,31				945.6 605.6 LB		
3. CONFORM	ITY STATEMENT (Complete and	check)	· · · · · · · · · · · · · · · · · · ·						
4. AGENCY'S NAME	AND ADDRESS		& KIND OF AGE	HCY		c.	CERTIFICAT	E NO.	
598	M RUDOLIN 119 INDIAN TRAIL 1 HAVEN, MICHIGAN.	• • • • • • • • • • • • • • • • • • • •	□ U. 8. Certificated Mechanic. □ Foreign Certificated Mechanic. □ Certificated Repair Station. □ Manufacturer. □ (Check if repair or alteration was made under delegation option procedures.)				11975		
9/28/ (Date repair	r and/or elteration completed) FOR RETURN TO SERVICE	coordance with and correct to	e unit(s) identi a the requirement the best of my	ified units of knowled	der item 3 above an Part 18 of the U. S. odge.	Civil Ai	r Regula	ations and that	
trator of the	Standards	dis nee ∐Man	U ufacturer	□ Can	adian Department of er (SpecifyN3PECT)	Transis	ort Insne	ector of Aircraft	
	Inspector		Jou		Done 1	A J	1970 Scation mu	mber)	
	MPLETED ONLY BY FAA PE		tached memora		□ Spot Che		A.	C. 0.	
	A designation number)		- D - Marie		(Signature Flight Standar	da Inspeci	(AR)	Os -	
10-84010-6							For	m PAA-887 (4-62	

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

DESCRIPTION OF WORK.

THIS 337 TO COVER WORK ACCOMPLISHED BY (PARTIES OR PERSONS) UNKNOWN TO ME AND TO BRING EQUIPMENT LIST TO DATE.

RE.OIL COOLER:

REMOVED ITEM \$102, (OIL COOLER HEAT EXCHANGERS INC.) MODEL 100.

INSTALLED: MODIFIED UNITED AIR PRODUCTS OIL COOLER. MODEL
U-3160-D 5. SUBSTANTIATE INSTALLATION AS AIRWORTHY

THIS OIL COOLER ASST. EKCEPT FOR IMPROVED MOUNTING BASE, SAME AS ASSEMBLY INSTALLED ON REPURLIC SEABER MODEL RC-3 SEPIAL RO 765 REG NO 6519KOF WHICH THERE WAS, TYPE INSPECTION AUTHORIZATION FORM ACA 316. DATED JUNE 13,1952 TO FLIGHT SECTION REF, NO.3-573 F & MANUFACTURING SECTION REF, 3-573 AND WHICE A FORM 337 DATED 11/15/51. APPROVED BY J. GOUSSELIN DATED 6/19/52 AND FORM ACA 316 TIPE INSPECTION AUTHORIZATION, DATED JUNE 13,1952, SIGNED BY MURRAY B. HALL CHIEF AIRCRAFT ENGINEERING BRANCH. 3-573.

ITEM 202 B. AIRCRAFT SPEC. A-769. STERABLE TAIL WHEEL.
INSTALLED IN ACCORDANCE WITH REPUBLIC SERVICE BULLETIN NO 17.
IN WHICH REPUBLIC FURNISHED ALL PARTS & INSTRUCTIONS FOR INSTALLATION OF
STERABLE ASSY.

THE WEIGHT & BALANCE COPIED FROM SERVICE BULLETIN NO. 17. (REPUBLIC AVIATION)

SEE PAGE 2. FOR WEIGHT & BALANCE

7/-

OKLAHOMA CITY, OKLA

1107 FZ - 2 - 51 FDH . E.

"If additional space in needed attach additional sheets bearing aircraft nationality and registration mark and date work of mphysical arrival and registration mark and date work of mphysical arrival arrival

Obrok block if additional absets are attached.

E.S. SEPTERMENT PRINTING OFFICE 16-64010-

Form FAA-887 (4-52)

MAR 18 1964 684 2406

MAJO	R REPAIR AND ALTERATI	FEDERAL	L AVIATION AIRFRAME,	rage POW	BICSperator #17 ERPLANT, PROPELI			LIANCE)	
1. AIRCRAFT	MAKE	Sec.	10EL		SERLAL NO.	f .		O REGISTRATION MARK	
1. AIMCIOAFI	Republic		HO-3		615	6386K			
2. OWNER	Marine International			00.		št.,	Krie,		
CORDAN	TE ONLY FOR UNIT REPAIR CE WITH CIVIL AERONAUTIC	ED AND/OR	ALTERED. DI	BCRI	BE WORK ACCOMPLI	SHED	ON RE	VERSE IN AC-	
THE	MAKE		MODEL		SERIAL NO.			WORK (Check)	
						MAJOR	REPAIR	MOITARDELIA RCLAM	
« AIRFRAME	***************************************	A (da described	in item i sbow)	•••••	*************			Х	
A. POWERPLAN	T								
e. PROPELLER	7 7 7	- market	News						
d. APPLIANCE	TYPE AND MANUFACTURER		5		e de la companya de				
A AIRCRAFT WEIGHT AND BALANCE DATA "AFTER the repairs under oliversions. described beloss sever mode. This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an alteraft. At this time, it will be completed by the installing agency, if applicable,									
CATEGORY	Y EMPTY WEIGHT (Po	tando)*	EMPTY CI	MTER O	GRAVITY (Inches from datum)	·	LISEFUL LOAD (Pounds)*		
omal	ormal 2224.4		130.8			925.6			
	MITY STATEMENT (Compile and ME AND ADDRESS	check)	& KIND OF AG	-			CERTIFICAT	T 100	
Robert Box 384	Smith		U. S. Certificated Mechanic. Foreign Certificated Mechanic. Certificated Repair Station. Manufacturer. Check if repair or alteration was made under delegation option procedures.				169513		
attachme the inform	that the repair and/or alterations hereto have been made in a mation furnished herein is true a	ccordance will	the requirem	ents of	Part 18 of the U. S. Cledge.	ivil Ai	r Regul	the reverse or stions and that	
	parrant/or alteration completed)				(Signature of sutherised in	dividual	D		
Pursuant trator of	AL FOR RETURN TO SERVICI to the authority specified below the Federal Aviation Agency an PROVED BY FAA Pligh Standards Inspector	the unit iden d is		3 was	inspected in the manner madian Department of Ther (Specify) Ir apect	ranspo	ort Inspe	ector of Aircraft	
	of approval or rejection)		00	Cess	of suthorised helividual; title	or identif	1 6051 Gallon au	mber)	
- Forwar	ded for engineering comment of TERN EGION GADO		tached memor	andum	38 M. Spot Chee	ked	or)	(Date)	
\$6-\$4010-8		.,					Pos	TTD PAA-687 (4-62)	

INSTRUCTIONS

This form must be completed in duplicate each time g major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Installation of spray rails in accordance with Aero Products Engineering, Inc. STC SA2-1253. Permission to use this STC is limited to one aircraft only. Weight change #20 lbs. at Station 73.

Signed: AERO PRODUCTS ENGINEERING, INC.

Per: James G. Addison - President

Installed Spray rails per dwg. 2029 rev.B

mf per STC SAR-1253 30 lbs. (73) 1460 2224.4 15s. (121.31 2224.4 15s. (120.8) 267410 268870 Old Empty Veight New Empty Weight 340 1bs. (62) 21030 Pilot & pass. Pasc. (2 rear) 340 1bs. (96) 32640 22.5 lbs. (136) 223.1 lbs. (116) 3060 Uil 25879.6 Gas (37.2gal.) **316**0

Host forward C.G. location at gross wt. 3160 lbs. (111.5) 351529.6

The most forward C.G location is 111.5 aft of datum and is within the limits of Spec.

A769 rev. 12. As the E.W.C.G. has moved forward only the most forward load condition is computed. It is the pilots responsibility to assure proper loading of the aircraft.

Equipment list revised to show the above change.

"If additional space is needed attach additional sheets hearing aircraft nationality and registration mark and date work completed

Obeck block if additional sheets are attached.

U.S. COVERNMENT PRINTING OFFICE 18- SEDIO-S

Form FAA-887 (4-62)

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

		(Airfram	e, P	owerplant, Pr	pel	ler, or Applian	ice)	OFFI	CE IDENTIFIC	CATION	
IN for	STRUC'	TIONS: Print of ions and dispo	or typ	oe all entries. See	FAR	43.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision t	hereof)
1 4	RCRAFT	MAKE	ST	OL (Republic)		MODEL	RC-3			
I. A	IRCRAFI	SERIAL NO.	61	.5			NATIONALITY AND REGISTRATION MARK N6386K				
		NAME (As she	o mwo	on registration certifi	cate)	· · · · · · · · · · · · · · · · · · ·	ADDRESS (As shown on registration certificate) 17 Highland Drive				
2. 0	WNER		Al	bert Miller			Eas	t Auroa		052	
					3	B. FOR FAA USE ON	LY				
				4. UN	IT IDE	ENTIFICATION				5.	TYPE
-	UNIT	MAKE			WODEL		SERIAL	но.	REPAIR	ALTER- ATION	
AIRFI	RAME	AME (As described in item 1 above)					**		х		
POW	ERPLAN	r					MI - 44-4				
PROP	PELLER										
APPL	IANCE	MANUFACTURER									
					6.	CONFORMITY STATEM	AENT			<u> </u>	
	A.	AGENCY'S NA	WE	AND ADDRESS		1	ID OF AGE		C. CER	TIFICATE	NO.
		STOL Airo Box 175 Norwood,		-		FOREIGN CERTIF	U.S. CERTIFICATED MECHANIC FOREIGH CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER				
	attachm	ents hereto hav	e be	en made in accorda	ince v	the unit(s) ident with the requirement of the b	nts of Part 4	3 of the U.S. I	described or Federal Aviat	the reve ion Regu	rse or lations
DATE		4/14/82				SIGNATURE OF	AUTHORIZED	Front			
				7.	APPRO	VAL FOR RETURN TO	O SERVICE				
Pur the	Admini:	the authority strator of the F	giver edera	n persons specified Il Aviation Adminis	below	, the unit identifien and is 🛣 APPI	d in item 4 ROVED	was inspected i REJECTED	n the manne	r prescrib	ed by
BY		A FLT. STANDARDS		MANUFACTURER	x	INSPECTION AUTHORI		OTHER (Specify)			
	FA	A DESIGNEE		REPAIR STATION		OF TRANSPORT INSP OF AIRCRAFT	ECTOR)	
	OF AP	PROVAL OR		CERTIFICATE OR DESIGNATION NO 16773291		SIGNATURE OF	ZZC-	MDIVIOUAL	wist.		

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 (craft nationality and registratio	f more space is required, attach additional sheets. Identify with airmark and date work completed.)
Installe Aircraft	ed Lycoming GO-480-G2D6 Engine d Hartzell HC-A3VF-3L/LV8433N Propeller Modified For Engine & Propeller Installation In ce With Drawings & Procedures Covered Under 2NW
	*********END*******
	•
	·
•	· ·
	ADDITIONAL SHEETS ARE ATTACHED

United States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SA282NW

This certificate, issued to S.T.C. BEE, INC.

sertifies that the change in the type design for the fillowing product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 03 of the Civil Air Regulations. Effective November 13, 1945.

Original Product - Type Certificate Number: A-769

Make: Republic

Model: RC-3

Description of Type Design Change: Installation of Lycoming GO-435 and GO-480 series engines, Hartzell HC-A3X and HC-83X series propellers, new nacelle, engine mount, modified rear spar, and associated systems in accordance with S.T.C. BEE, Inc. Installation Instructions Model 1-LE and Drawing List Report No. 1. These documents shall be maintained as part of the permanent records for the modified aircraft.

Limitations and Conditions: The approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Addendum SA282NW, and S.T.C. BEE, Inc. Approved Airplane Flight Manual Supplement shall be maintained as part of the permanent records for the modified aircraft. This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

rendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the

Federal Aviation Administration.

Late of application: December 29, 1976

Dale reissued:

Tale of issuance:

April 13, 1976

L'ale amended:

SERVI AVIATION TO SERVICE STREET

By direction of the Administrator

D. L. Rigging

(Springer)

Acting Chief, Engineering and Manufacturing Branch

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Anited States of America

Department of Transportation—Jederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet) April 13, 1976

Number SA282NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA282NW

The conditions and limitations of Type Certificate Data Sheet No. A-769 apply except as follows:

The Supplemental Type Certificate Addendum, which is part of STC SA282NW, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: S.T.C. BEE, INC.

MODELS RC-3, 4PCLM (NORMAL CATEGORY) AS MODIFIED BY STC SA282NW.

Engine:

Lycoming GO-435 and GO-480 series

Fuel:

See Engine Data Sheet as follows:

<u>Engine</u>	TC DATA Sheet
GO-435 series	E-299-16
GO-480 series	E-275-10

Propeller:

Hartzell HC-A3X (Data Sheet No. P-913-11)
Hartzell HC-83X (Data Sheet No. P-884-12)

Propeller-Engine Combinations:

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible, since this figure includes the diameter reduction allowable for repair purposes.

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUC for instruc	CTIONS: Print or	type all entries. See	FAR	43.9, FAR 43 Appe	endix B, and	d AC 43.9-1 (o	r subsequen	revision	hereof)
	MAKE	STOL (Republic	c)		MODEL	RC-3			
1. AIRCRAFT	SERIAL NO.	615		NATIONALITY AND REGISTRATION N6386K			TRATION M	ARK	Article Control of the Control of th
0 00000	NAME (As shown	n on registration certific	ate)	ADDRESS (As shown on registration center) 17 Highland Drive				ificate)	
2. OWNER		Albert Miller				t Auroa	NY 140	52	
				3. FOR FAA USE ON	LY				
		4. UNI	T ID	ENTIFICATION				T 5	TYPE
UNIT		MAKE	MODEL		SERIAL	но.	REPAIR	ALTER-	
AIRFRAME	••••	(/	s de	scribed in item 1 ab	ove)		ATION		
POWERPLAN	Т								
PROPELLER									
APPLIANCE	MANUFACTURER								
			4	CONCODULTY STATEM	ENT				
A.	AGENCY'S NAME	E AND ADDRESS	Q.	CONFORMITY STATEMENT B. KIND OF AGENCY C. CE				RTIFICATE NO.	
	STOL Aire	eraft Corp.		X U.S. CERTIFICAT	ED MECHANIC		2 141	1171	,)
	Box 175	-		FOREIGN CERTIF			714	4313	2
	Norwood,	MA 02062		MANUFACTURER		(
attachm	ents hereto have b	and/or alteration made been made in accordant furnished herein is tr	nce v	vith the requiremen	its of Part	43 of the U.S. E	described or ederal Avias	the reve	rse or lations
DATE	4/14/82			SIGNATURE OF A		Grant Grant			
		7. A	PPRO	VAL FOR RETURN TO	SERVICE				
Pursuant to the Admini	the authority giv	en persons specified beral Aviation Administ	elow ratio	, the unit identified n and is 😿 APPR	in item 4	was inspected in REJECTED	n the manne	r prescrib	ed by
1 1	A FLT. STANDARDS	MANUFACTURER	x	INSPECTION AUTHORIZ		OTHER (Specify)			
FA	A DESIGNEE	REPAIR STATION		CANADIAN DEPARTME OF TRANSPORT INSPE OF AIRCRAFT	CTOR	1			
DATE OF AP	PROVAL OR 4/14/82	CERTIFICATE OR DESIGNATION NO		SIGNATURE OF	LUTHORIZE	HIDIVIDUAL	1		
	7/17/06	16773291A		a	ne	Vale 12	HOL		
FAA Form	337 (7-67)					/		(8	320)
				/		,			

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.

	. 040		
8. DESCRIPTION OF WORK ACCOUNTS CONTROL OF WORK ACCOUNTS	APLISHED (If more space is gistration mark and date	required, attach additional sheets. work completed.)	Identify with air-
	*****E	ID****	
•	,		
•		•	
		_	
	ADDITIONAL :	SHEETS ARE ATTACHED	
	-		

Baltre States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SASTNE

This certificate, issued to

STOL Aircraft Corporation

P.O. Box 175

Norwood, Massachusetts

certifies that the change in the type design for the following product with the limitations and conditions

therefor as specified hereon meets the airworthiness requirements of Part 03 of the Civil Air

Regulations.

Chiquinal Product - Type Certificate Number A-769

Make: Republic

Model: RC-3

Description of Type Design Change. Installation of Stewart-Warner Model 940-F Heater in accordance with United Consultants Corporation Drawing 67-022300, dated 8/3/65, and E.O. 67-022300, dated 3/23/82.

Jimitations and bonditions 1. This approval should not be incorporated in any aircraft of this specific model on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft.

STOL Aircraft Corporation Supplement No. 2 to the Airplane Flight Manual for Republic Model RC-3 airplane is required with this change. (cont'd) This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

rendered, suspended, reveked, or a termination date is otherwise established by the Administrator of the

Tederal Areation Administration.

Tale of application March 23, 1982

Jule ressued

Tale of assume March 30, 1982

Late amended



Arthur J. Pidgeon

By fightion of the Administrator

Chief, Boston Aircraft Certification Branch

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Pepartment of Transportation—Lederal Aviation Administration Supplemental Type Certificate

(Continuation Sheet)

Number

Limitations and Conditions (continued)

3. With the heater installed and connected for operation, a hand fire extinguisher accessible to the pilot during flight must be installed.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.



DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

FAA Form 337 (7-67)



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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
OFFICE IDENTIFICATION

(8320)

		Airiram	Ψ, Γ	owerpiani, Pr	obei	ier, or Appliar	100)						
for	STRU	CTIONS: Print of ctions and dispo	or typ	pe all entries. See n of this form.	FAR	43.9, FAR 43 App	endix B, and	AC 43.9-1	or subsequent	revision (hereof)		
1 4	IRCRAFI	MAKE		STOL (Repub	lic)		MODEL	RC-3					
1. 7	- TRUNKE	SERIAL NO.		615			NATIONALITY AND REGISTRATION MARK N6386K						
		NAME (As she	own c	on registration certifi	cate)		ADDRESS_(s showe on n	egistration certif	ficate)			
2. 0	WNER		Alt	ert Miller			ADDRESS (As shown on registration certificate) I/ High land Drive East Auros NY 14052						
	3. FOR FAA USE ONLY												
	THE TAX OF CHET												
				4. UN	IT ID	ENTIFICATION				5.	TYPE		
	UNIT	MAKE				MODEL		SERI	AL NO.	REPAIR	ALTER- ATION		
AIRF	RAME	•••	**************************************						***		x		
POW	/ERPLAI	41											
PROF	PELLER												
APPL	IANCE	MANUFACTURER	andread with continued — a										
					6	CONFORMITY STATEA	AENT						
· · · · · · · · · · · · · · · · · · ·	Α.	AGENCY'S NA	ME	AND ADDRESS			ID OF AGE		C. CER	TIFICATE	NO.		
		STGL	Air	eraft Corp.		FOREIGN CERTIFICAT			NP				
		Box 1				CERTIFICATED R			— /7 /				
		Norwo	od,	MA 02062		MANUFACTURER			1898	1863			
	attachr	nents hereto hav	re be	en made in accorda	ince v	the unit(s) ident with the requirement and correct to the b	nts of Part 4	3 of the U.S	d described on . Federal Aviat	the reve ion Regu	rse or lations		
DATE		4/14/	82			SIGNATURE OF	AUTHORIZED	INDIVIDUAL	£1				
				7	ADDDO	VAL FOR RETURN 7	CERVICE	1 i agre	MA				
Pur	suant t	o the authority istrator of the F	giver edera		below	VAL FOR RETURN TO the unit identifiend and is APPF	d in item 4	was inspected REJECTED	l in the manne	r prescrib	ed by		
	F.	AA FLT. STANDARDS		MANUFACTURER	x	INSPECTION AUTHORI		OTHER (Specify)					
BY	F.	AA DESIGNEE		REPAIR STATION		CANADIAN DEPARTMI OF TRANSPORT INSPI OF AIRCRAFT				•			
		PPROVAL OR		CERTIFICATE OR	-	SIGNATURE OF	AUTHORIZED	AUDIVIDUA	Y	1			
KEJEC	HOIT	4/14/82		DESIGNATION NO		102	112-	1	DYA				

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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.)

Installed STOL Aircraft Corp. Electric Hydraulic Pump System In Accordance With Drawings & Procedures Covered Under STC SA853EA

*****END****

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA853EA

This certificate, issued to STOL Aircraft Corporation P. O. Box 175 (Norwood Airport) Norwood, Massachusetts 02062

cortifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air

Regulations.

Original Product - Type Certificate Number: A-769

Make: Mael (Republic)

Model: RC-3

Description of Trype Design Change:

Installation of STOL Aircraft Corporation Electric Hydraulic Pump System per Drawing No. 67-058900 Rev. A dated 12 March 1970.

fimilations and Conditions: 1. STOL Aircraft Corporation Airplane Flight Manual Supplement No. 1 FAA approved 19 November 1970, required with this installation.

This approval should not be incorporated in any aircraft of this specific model on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the
Tederal Aviation Administration.

Late of application: 21 May 1970

Sale reissued:

Tale of issuance: 19 November 1970

Tale amended:

TO THE PROPERTY OF THE PROPERT

By direction of the Administrator

W. F. NORTON

Signature)

Chief, Engineering and Manufacturing Branch

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



US Department of Transportation

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions

	Make				Mod	el						
	WIGHT	1	Republic		Seabee RC-3							
1. Aircraft	Serial No.				Nati		-	lark				
	Serial 140.		615		Nationality and Registration Mark U.S.A. N6386K							
	Name (Ac et	2040	on registration certifi	icatel								
	Ivalle (AS SI	OWII	on registration certifi	icate)	700		3 Redman R		erimoato,			
2. Owner		B4 1	l Bardin			-	ckport, N.		1.1.20			
		، علمه بليد (بلد	r bardin			proc	skport, N.	L + 1	4420			
	The Court of the C			3. I	For FAA Use Only							
				4. 1	Unit Identification				5. Type			
Unit	Unit Make				Model		Serial No.		Repair	Alteration		
AIRFRAME	~		(As	describe	d in Item 1 above) 🗻			of days		Х		
POWERPLANT												
PROPELLER	OPELLER		-									
	Туре											
APPLIANCE	Manufacture	er										
				6. Cc	onformity Statement				L			
A. Agency'	s Name and Add	ress	, , , , , , , , , , , , , , , , , , ,		Kind of Agency		C	. Certi	ificate No.			
					U.S. Certificated Med	hanic				2011/10/2011		
	R-Tech Av				Foreign Certificated	Mechanic						
49	06 Pine H	il	Koad	×				ବୃତ୍ଧ	R698R			
. Al	bion, N.Y	• 1	4411		Manufacturer				1			
have	een made in acc	cordar		nents of F) identified in item 4 a Part 43 of the U.S. Fe wledge.							
Date				Sic	gnature of Authorize	d Individu	ual					
	12-10	-94			time de			11	54402 1 0			
				7. Approv	val for Return To Ser	vice			J 204 201 201 201			
			n persons specified iation Administration		ne unit identified in	item 4 wa		he mar	nner prescrit	ped by the		
	AA Fit. Standards	5	Manufacturer	Ins	pection Authorization		Other (Specify)					
BY	AA Designee	х	Repair Station	Person Approved by Transport Canada Airworthiness Group								
	roval or Rejectio 10-94	n	Certificate or Designation No.	Sig	gnature of Authorized							

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	Descri	ntion	of !	Work	Accom	plished

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

Installed the following equipment per manufacturer's instructions:

King KA134 s/n 12125 audio panel.

King KT-76A s/n 98205 transponder with KA42 antenna.

ACK A-30 s/n 45371 altitude encoder.

ACK E-01 s/n 012500 ELT and Antenna.

Sigtronics Intercom SPO-20 s/n 47477.

Auxiliary Power jack.

After the encoder was installed, the aircraft static system checked IAW 91.411 and found to comply with part 23.1325 para 2i.

The transponder and encoder were checked IAW 91.413 and 91.217 respectively and found to comply with part 43 appendix f and e.

IAW FAR 23.1351, electrical load was checked. Maximum continuous load does not exceed 80% of alternator output.

The above installation has been static load tested to the following:

3 g up

9 g forward

6 g down

1.5 g side-to-side

and was found to meet FAR 23.1561 requirements. No permanent deformation of structure was evident.

The above installation has been functionally checked in accordance with the manufacturer's instructions and found to meet FAR 23.1301 and FAR 23.1431 requirements.

The Aircraft weight and balance, log books, and equipment list have been changed to reflect the above change.

----- END -----

JAR-Tech Avionics
Pine Hill Airport
4906 Pine Hill Road
Albion, N.Y. 14411
Repair Station No. QQJR698R

REVISED WEIGHT AND BALANCE

		•
OWNER BILL BARDEN	DATE	
AIRCRAFT MAKE REPUBLIC RC-3	SERIAL No. 615	TAIL No. 163864
PREVIOUS EMPTY WEIGHT:	WEIGHT 2374 ARM 12	6.3Z MOMENT
EQUIPMENT REMOVED:		
NARCO MK-12A 5/- 33AS9	5.1 285	39 198.9
NARGO T-24MP-12A1 S/U 5/F54	3.9 (13)	50 195.0
	·	
		·
•		
EQUIPMENT INSTALLED:		
MY-12 %- 0343 KINS KAISY SIN 12125	4.5	39 175.5
K1-16 A 5/2 98205 KA-60 AM. E CAGIL	, '	39 <u>120.90.</u> 14 <u>342.00</u>
ACK A-30 3/245371 ENCOUR	,	39 19.50
ACK E-01 ELT 5/- 012500	3.3	37 452.1
SIGTRUSICE SPO -20 5/2 47477	0.3	12.3
TOTAL:		·
NEW EMPTY WEIGHT:		
NEW EMPTY WEIGHT C/G:		
NEW USEFUL LOAD:	/	20/1
	SIGNED	while Windel
	CERT. No.	115440210





US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020 For FAA Use Only

Office Identification AEA-FSD On

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000

for	each su	ch violation (Sec	ction	901 Federal Aviat	ion A	ct	of 1958	.O. 142 8).	≟ij. Fall	4101016	·hoi	i com result mat	van hengi	ty not to exce	,000		
		Make							I	Model							
4 4.	aur#	REP	UBI	IC						RC=3 Nationality and Registration Mark							
1. Air	cratt	Serial No.								Nationality and Registration Mark N6386K							
			Name (As shown on registration certificate,							Address (As shown on registration cer							
				_	inica	10)			1								
2. Ow	/ner	WILLI		2203 REDMAN RD. BROCKPORT NY 1442							20						
							3. For	FAA l	Jse Oni	у							
							4. Uni	t Ideni	tificatio	n			-	5. Type			
ι	Jnit		Mal	ke				Mode	ļ			Serial No.		Repair	Alteration		
	A 1 4 PT			,	A a a a		ما ام ما ام		4 ab a		Ь.		100	1			
AIRFR	AME	(As described in Item 1 above)										XXX					
POWE	RPLANT	-															
PROPI	ELLER																
		Туре	Гуре														
APPLI	ANCE	Manufacturer															
						6.	Confe	ormity	Statem	ent				L			
A. Ag	ency's	Name and Addre	285						Agency				C. Certi	ficate No.			
				4174NO			XX u	.S. Cer	tificated	Mechani	c						
		JERRY A. 2400 COL	RU	1227110 (7			F	oreign	Certifica	ted Mech				119621083			
		BROCKPOR	T	ΝΥ /4420			С	ertifica	ted Repa	ir Station	n						
		DAUCKTOK	, ,	1) 17720			Manufacturer										
	have be	en made in acco	ordan	r alteration made t ace with the requir correct to the bes	emer	nts (of Part	43 of	d in item the U.S	4 above Federa	an I A	d described on the	ne reverse ons and th	or attachme	nts hereto nation		
	rui ilisili	d lieleni is true	414	COLLECT TO THE DES				A	f Autho	ized _i Ind	div.	dual					
Date		JUNE 4 1	992	7			Signa		A	2		·					
					7. /	App	proval	r Re	turn To	Service							
Pur Adr	suant t	the authority tor of the Federa	giver al Avi	n persons specific ation Administrat	d bel	low nd i	the use	nit ide	entified ROVED	in item		was inspected in JECTED	the man	ner prescrib	ed by the		
		A Fit. Standards spector		Manufacturer	χ.	X	Inspec	tion A	uthoriza	tion		Other (Specify)					
BY	FA	A Designee		Repair Station			Canad	a Airw	orthines	Transpor							
Date		oval or Rejection		Certificate or Designation No.	2/0	8	Signat	ure o	Author	izen Irid	ivio	fual ~~					
									1	· • •							

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. A stalteration 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.)

COMPLETED INSTALLATION OF REPLACEMENT TAIL WHEEL TIRE AND TAIL WHEEL RIM ASSEMBLY IN ACCORDANCE WITH ATTICUS STEVEN HENSLEY STC #SA3601SW REFERENCE EDMOND F. FREEMAN REPORT NO. II, REVISION C, DATED 04/07/86, AND REPORT NO. III, REVISION B, DATED 04/07/86. WEIGHT AND BALANCE AMENDED, OPERATORS MANUAL AMENDED, EQUIPPMENT LIST AMENDED AS REQUIRED. THIS INSTALLATION HAS BEEN DETERMINED TO BE COMPATIBLE WITH ALL PREVIOUSLY APPROVED MODIFICATIONS.

COMPLETED INSTALLATION OF AMPHIBIAN LANDING GEAR POSITION ADVISORY SYSTEM-IN-AGGORDANCE-WITH-LAKE & AIR, STC #SA39CH, REFERENCE INSTALLATION MANUAL AS LISTED ON AML NO. SA39CH. WEIGHT AND BALANCE AMENDED, OPERATORS MANUAL AMENDED, EQUIPMENT LIST AMENDED AS REQUIRED. ELECTRICAL LOAD ANALYSIS FOUND WITHIN 80% OF THIS AIRCRAFT ELECTRICAL SYSTEM LOAD CAPABILITIES. THIS INSTALLATION HAS BEEN DETERMINED TO BE COMPATIBLE WITH ALL PREVIOUSLY APPROVED MODIFICATIONS. A COPY OF THE THIS STC CERTIFICATE AND FAA APPROVED MODEL LIST (AML) NO. SA39CH AMENDED JANUARY 17, 1996, SHALL BE MAINTAINED AS PART OF THE PERMANENT RECORDS FOR THIS AIRCRAFT.



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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

for e	ach such	violation (Section 901 Federal Av	iation Act	of 1958).								
		Make			Model	25.0						
1. Airc	raft	REPUBLIC				RC-3						
		Serial No. 615			Nationality and Registration Mark N6386K							
		Name (As shown on registration	certificate)		Address (As shown on registration certificate)							
2. Owi		BILL BARDIN			2203 REDMAN RD.							
					BROCKPORT, NY 14420							
~												
198	-			3. For FAA Use O								
5		eration (or repair) identified herein complic	a This arry	roval is only for	15/1-1	SDO-23						
_	with the	applicable airworthiness requirements and	s this aircra	aft make, model			,					
130	conformi	d for the above described arcraft, subject ty inspection by a person authorized in FA	no encisena R	I number.	RWORTH	VARÐ J. DICK ÍÍNESS INSPEC						
0	0673,	Section 48-378	Eduas	/		WILES WOLFC	IOR	T				
"Mar-d	DATE	APPROVING INSPECTOR		4. Unit Identificati	ion			5. Type				
U	nit	Make		Model		Serial No.		Repair	Alteration			
AIRFRA	ME		► (As aesci	ribed in item i abo	ve)							
POWER	RPLANT	LYCOMING		GO 480-G20	6	RL-1339-3	34		XX			
PROPE	LLER											
		Туре										
APPLIA	NCE	Manufacturer										
		Manufacturer										
			6	. Conformity State	ment							
A. Ag	ency's N	ame and Address		B. Kind of Agenc			C. Certi	ificate No.				
	J	ERRY A. SALZANO			Certificated Mechanic							
		400 COLBY ST.		Foreign Certifi			ΙA	11962	.083			
	В	ROCKPORT, NY 14420)	Certificated Re								
D I	cortifyt	hat the repair and/or alteration made	te to the un	·		and described on th	ne reverse	orattachme	nts hereto			
l t	ave bee	n made in accordance with the red I herein is true and correct to the I	quirements	of Part 43 of the U								
Date				Signature of Auth	orized Ind	ividual						
		10/9/98		Land St								
			7. Ap	proval for Return T	o Service							
Purs	suant to	the authority given persons spector of the Fed ral Aviation Adminis	ified below	v, the unit identifie is ► APPROVE		4 was inspected in	the mar	nner prescrit	ped by the			
	FAA	A Flt. Standar Manufacturer	X	Inspection Authori		Other (Specify)						
вч	1112	7000	A	Parson Approved b	V Transpar							
	FAA	Designee Repair Station		Person Approved b Canada Airworthin								
Date		Or Rejection Certificate or Designation N IA 1196	lo. 21083	Signature of Auto	orized Ind	ividual						

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.)

THE FOLLOWING INSTALLATION IS TO INCLUDE IN THE ENGINE'S OIL SYSTEM, A SPIN ON OIL FILTER IN ADDITION TO THE EXISTING OIL INSTALLED AIRWOLF FILTER CORP. P#AFC-KOO7-D LYCOMING FIREWALL FILTER KIT. INSTALLATION COMPLETED IN ACCORDANCE WITH EA-AC 43:13 1A&2A, REFERENCE AIRWOLF FILTER CORPORATION STC SA00024NY, INSTALLATION INSTRUCTIONS NO. AFC-KOO7-A-II AND ASSEMBLY DRAWING# AFC-D-0025. UNIT ENGINE COWLING COMPARTMENT MOUNTED INTERIOR OF THE AT FUSELAGE STATION 144.0 LEFT OF THE ENGINE. BEEN ROUTED IN RELATION TO OIL FLOW, INSTALLATION HAS SERIES WITH THE OIL COOLER. THE ENGINE TO OIL COOLER LINE INLET HOSE P#124007-10CR-0250 HAS BEEN REMOVED. FILTER EXISTING PRESSURE PORT LABELED "TO OIL COOLER". TAPPED INTO OUTLET HOSE P#124003-10CR-0130 TAPPED INTO EXISTING LOCATED AT OIL COOLER. 2 EACH HOSES FABRICATED AND AND SKYPAC PARTS SUPPLY CORPORATION UNDER APPROVED BY IT HAS BEEN DETERMINED THAT THIS WO#6370 DTD04-10-98. COMPATIBLE WITH ALL PREVIOUSLY INSTALLED INSTALLATION IS A COPY OF THIS APPROVED ALTERATIONS. STC INCLUDING AIRWOLF CORPORATION CONTINUED AIRWORTHINESS INSTRUCTIONS AFC-KOO7-MI SHALL BE MAINTAINED AS PART OF THE AIRCRAFTS AIRCRAFT PERMENENT RECORDS. OPERATORS MANUAL, EQUIPMENT LIST, AND WEIGHT AND BALANCE HAVE BEEN AMENDED TO REFLECT THIS CHANGE. ---- END----.



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

Form Approved OMB No. 2120-0020

For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

tor ea	ach suci	n violation (Section	on 901 Federal Avlati	ion Act	01 19	138}.	,					
4 Aless	-4	Make "CE	E BEE" REPU	JBLI	С		Model	RC-3				
1. Aircı	rart	Serial No. 61	5			Nationality and Registration Mark N6386K						
2. Own	er		n on registration cert				DMAN	ertificate) RD• 14420				
<u> </u>			and the second s		3. F	or FAA Use C	nly			<u>, , , , , , , , , , , , , , , , , , , </u>		
Manurage	with the approve conform	applicable airworthine	ntified herein complies as requirements and is ibed aircraft, subject to uson authorized in FAR	and seri	roval is aft mal	s only for ke, model ber.	A LA FDV	SDO-2: VARD J. DICK HINESS INSPE				
				1	4. U	Init Identificat	ion ,			5. Type		
Ur	nit		lake			Model		Serial No		Repair	Alteration	
AIRFRAI	ME	****	••••••••••••(A	As desc	ribed	in Item 1 abo	ove)				xx	
POWER	PLANT											
PROPEL	LER								1100-0-1100-0-1			
APPLIAI	NCE	Type Manufacturer										
				6	. Co	nformity State	ement					
A. Age	ncy's N	ame and Address			В. І	Kind of Agend	у		C. Cert	ificate No.		
JF	ERRY	A. SALZA	VO.		XX	U.S. Certificat	ed Mechanic					
		COLBY ST.					icated Mechan	ic	IA 119621083			
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вү –		Flt. Standards ector	Manufacturer	XX	Insp	ection Authori	zation	Other (Specify)				
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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.)

THE FOLLOWING INSTALLATION IS TO INSTALL IN ADDITION TO THE RUDDER GROUND ADJUSTABLE TRIM TAB AN IN FLIGHT COCKPIT CONTROLLED ELECTRICALLY ADJUSTABLE RUDDER TRIM TAB, M#400 S#4457, CONSISTING AERO-TRIM, INC. OF COCKPIT COMBINATION RUDDER TAB POSITION INDICATOR/ROCKER MOUNTED TYPE CONTROL SWITCH, PULLABLE CIRCUIT BREAKER, WIRING, SERVO AND PUSH PULL ROD ASSY, CONTROLLING AND HINGED TRIM FOLLOWING INSTALLATION TAB. THE HAS BEEN COMPLETED ACCORDANCE WITH EA-AC 43:13 1A&2A, AND REFERENCING A ERO-TRIM INC. INSTALLATION INSTRUCTIONS. MOUNTED RUDDER TRIM TAB INDICATOR/ROCKER SWITCH ASSY. AT INSTRUMENT PANEL (UPPER CORNER ΙN FULL VIEW AND OF PILOT ACCESS POSITION) FUSELAGE STATION 40.0. INSTALLED 1 AMP PULLABLE CURCUIT BREAKER POTTER & BRUMFIELD P#W23X1AG-1 AT LOWER CENTER CURCUIT BREAKER PANEL STAION 37.0. ROUTED AND SECURED AS NECESSARY AVIATION GRADE 22GA. WIRE TO RUDDER. REMOVED LOWER 9.25 INCHES OF EXISTING GROUND ADJUSTABLE TAB FROM RUDDER (TOTAL TAB SIZE IS 25"X 2.25") INSTALLED AERO-TRIM HINGED TRIM TAB AT THE SAME CENTER LINE LOCATION AS REMOVED SECTION OF TAB AS NOTED, INSTALLED RUDDER MOUNTED POP-RIVETS. SERVO AT SAME CENTER LINE AS NOTED ON RUDDER, USING 3/32 POP-RIVETS PARALLEL INSTALLED AERO-TRIM TAB. ROUTED WIRING FROM VERTICAL STABILIZER TRAILING EDGE TO RUDDER LEADING EDGE USING AS REQUIRED. HOLE AND GROMMET SYSTEM ELECTRICALLY WIRED TO AIRCRAFT MAIN BUSS BAR. ALL COMPONENTS AND MATERIALS USED INSTALLATION HAVE A TOTAL WEIGHT OF LESS THIS THAN 1 FINAL RIGGING COMPLETED IN ACCORDANCE WITH AERO-TRIM INSTRUCTIONS. FINAL INC. RIGGING OPERATIONAL CHECK OF ROCKER SWITCH, INDICATOR OPERATION, SYSTEM INCLUDING SERVO TAB TRAVEL CURCUIT OPERATION, AND BREAKER OPERATION COMPLETED SATISFACTORY. ITHAS BEEN DETERMINED THAT IS COMPATIBLE WITH INSTALLATION ALL PREVIOUSLY INSTALLED APPROVED ALTERATIONS. ELECTRICAL LOAD ANALYSIS FOUND WITHIN 80% OF THIS AIRCRAFT CONTINUOUS LOAD CAPABILITY. OPERATING MANUAL AMENDED USING AERO-TRIM INC. FLIGHT MANUAL THE AERO-TRIM SUPPLEMENT. COPY OF INSTALLATION INSTRUCTIONS AND CONTINUED AIRWORTHINESS INSTRUCTIONS SHALL MAINTAINED AS PART OF THE AIRCRAFTS PERMANENT RECORDS. LIST AND WEIGHT & BALANCE HAVE BEEN AMENDED AS REQUIRED TO REFLECT THIS CHANGE. ---- END-----



(305) 864-3336

FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT OR

PILOT'S OPERATING HANDBOOK AND FAA APPROVED ATRPLANE FLIGHT MANUAL SUPPLEMENT FOR:

REG.	Ю.	
SER.	NO.	

This Supplement must be attached to the applicable PAA Approved Airplane Flight Hanual (AFM) or "Pilot's Operating Handbook and FAA Approved Airplane Flight Hanual" (POH/AFM) when the Aero-Trim Model 400 Electric Aileron and Rudder Trim Systems are installed in accordance with STC. The information contained herein supplements or supersedes the information of the basic AFM or POH/AFM only in those areas listed herein. For limitations, procedures, and performance information not contained in this Supplement, consult the basic AFM or POH/AFM.

CENERAL. Alleron and Rudder Trim Tabs are controlled by two separate systems, each having its own Indicator, Servo and Trim Tab. One indicator is labeled AILERON TRIM; the other indicator is labeled RUDDER TRIM. Each has its own control switch located in the diai face.

Servo units located in the Aileron and Rudder move the Trim Tabs to the desired position. The Servos free-wheel at the extremes of travel in either direction.

LIHITATIONS. No change.

NORMAL PROCEDURES

FOR ALLERON TRIM. Depressing the switch to the LWD position lowers the Left wing. When the switch is depressed to RWD, the opposite action occurs. The switch returns to the center-off position when released.

FOR RUDDER TRIM. Depressing the switch to the L position causes the sirplane to yaw left, and depressing to R causes right yaw. The switch returns to a center-off position when released.

EMERCENCY PROCEDURES. None. Extreme tab positions are easily overridden manually. Power is removed by pulling the circuit breaker.

PERFORMANCE. No change.

FAA APPROVED

Chief, Engineering and Manufacturing Branch Southern Region

DATE	

Above is the FAA approved HASTER COPY from which all POH supplements are made. All POHs are identical and impart the same information except for your airplane registration and serial number fill—in and the make and model for applicability. Certified copies of the original signed POH are available for \$5.00 each with a SASE.

Note: All aircraft certified and STC'd after Jan, 1, 1989 no longer need any POH document other than the above.

STC LIST

SA1291SO Cessna 140A SA129250 Cessna 150, A, B, C, D, E, F, G, H, J, K, L, H, A150K, A150L, A150H, 152, A152 SA1293SO Cesana 170A, 170B SA1294SO Cossna 172, A, B, C, D, B, F, G, H, I, K, L, H, N, P SA1295SO Cessna 172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, A, B, C SA1140S0 Cessna 177,177A,177B SA1132SO Cessna 177HG SA1296SO Cesana 180, A, B, C, D, E, F, G, H, J, K SA129750 Cessna 182, A, B, C, D, E, F, O, H, J, K, L, H, N, P, Q, R, R182, T182, TR182 SA129850 Cesana 185, A, B, C, D, E, A185E, A185F SA1157SO Cesane 206 SA1019SU Cessus 210 SA117050 Cessna 336 SA1166SO Cessna 337.A.B.C.D.B.F.G.H.T337B,C.D.B.F.G.H SA104450 Piper PA23-160, PA23, PA23-235, 250 SA1045SO Piper PA24-180,250,260 SA1216SO Piper PA28-140, 150, 160, 180, 235, PA28S-160, 180, PA28-R180, PA28-R200 SA104650 Piper PA28-151,161,181,RT-201,RT-201T,28R-201T,28-R201,28-236 SA1090S0 Piper PA30,39 SA102650 Piper PA32-260,300,R-300,S300,RT300,300T SA189250 Piper PA32-301,301T,R-301,R301T SA1217SO Piper PA34-200, 200T SA1111SO Mooney H20B, C. D. B. J. G. J. K. SA1204SO Mooney M22 SA1680SO Beech 19A,B19,M19,23,A23,A23A,A23-19,A23-24,B23,A24,A24R,B24R,C24R SA1210SO Beech V-taile 35, A35, B35, C35, D35, E35, F35, G35, 35R SA1211SO Beech V-taile H35, J35, K35, H35, N35, P35, S35, V35, V35A, V35B SA1836SO Beech Straight talls 35-33,35-A33,35-B33,35-C33,35-C33A,833,833A,83 rudder trim #33A,#33c,#33,#33A,#33c,Q33,36,A36,A36TC,B36TC SA113350 Gulfstream American AA-5, AA5A, AA5B SA1245SO Rookwell Commander 112, 112B, 112TC, 112TOA, 114, 114A SA1288SO Broo 415C.415CD SA1287SO Broo, Forney, Alon Broo 415D, E. G. ForneyF-1,F-1A, Alon A-2, A2-A SA1219SO Navion A.B.C.D.E.F.O.H. for both Aileron and Rudder SA1305SO Aerostar 600,601,601P,602P,Piper PA60-600,601,601P,602P,700P SA114250 Lake LA-4.4A.4-200 for both aileron and rudder SA2071SO Piper PA24-400 SA2151SO Maule M-4,-5,-6,-7, and MX-7 Series SA2330SO Mooney Rudder trim M20B,C,D,F,G,J,K,L SA288450 Piper Seminole PA44-180.-180T' SA2885SO Gulfstream Aerospace(Yankee) AA-1,-1A,-1B,-1C

Certified copies of STCs or POHs are \$5.00 ea. with a SASE

HOW TO TRIM YOUR AIRPLANE FOR MAXIMUM PERFORMANCE

Carry something hefty but useful like a survival kit as far aft in your baggage compartment as possible to give your plane a slight aft CG loading. This aft loading will force you to trim your nose down more than usual thereby flattening your angle of attack and reducing drag.

Immediately after climb-out, when you relax your engine, adjust the rudder trim and center the ball best you can. Release the controls and level the wings with your new aileron trim. Recenter the ball if necessary and relevel the wings. Note the rudder trim indication for future reference.

NOW engage the autopilot. At least once an hour, if you want to fly airline style, disengage your autopilot and relevel the wings to compensate for inflight changes. Re-engage autopilot. You will note also that your autopilot or wing leveler will no longer fly you sideways.

REMEMBER: Always trim your airplane BEFORE engaging the autopilot.

Avoid excessive fuel valve turning as valves wear out with use and oan stop the fuel supply to your engine. A trimmed airplane performs to its potential. The better you trim the more performance you'll get.

Happy flying!

Donorden.

US Department of Transportation

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

Form Approved
OMB No 2120-0020
For FAA USE ONLY
Office Identification

Federal Aviation Administration

INSTRUCTIONS: Print or type all entries see FAR 43.9 appendix b, and AC43.9-1(or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 u.s.c. 1421) Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958)

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				Brockport, N.Y. 14420									
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FAA Form 337 (12-88)

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

8. Description of Work Accomplished (If more space is required, attach additional sheets. In	Identify with aircraft nationality and registration mark and date work completed.)
Removed the following equipment:	
Narco UGR-2 Glideslope Receiver Narco T-24 Power/Audio Unit TKM MX12 Nav/Com King KA134 Audio Panel	Narco VOA-9 CDI Narco CLC-60 RNAV Sigtronics SPO-20 Intercom
Installed the following equipment:	
PS Engineering PMA7000S audio panel I/A/	W manufacturers installation manual P/N 200-070-0012 Rev 12 dated 9/00.
Garmin GNC300XL GPS/Com I/A/W manuf	facturers installation manual P/N 190-00067-22 Rev. E dated 9/00.
Garmin GI-102A CDI I/A/W manufacturers i	installation manual P/N 190-00180-00 Rev. C dated 4/01.
King KY196 Comm I/A/W manufacturers in	stallation manual P/N 006-00169-0003 dated 9/83.
GPS has been placarded "For VFR Use Only	" until flight supplement manual is prepared and approved.
Weight and balance and equipment list have	been updated.
As per FAR23.1351, the electrical load was of	checked. Maximum continuous load does not exceed 80% of the alternator output.
All wiring and installation was done per man 66, 67.	ufacturer's installation manuals and AC43.13-1B, chapter 11, paragraph 11.31, 32, 33,
The above installation has been static load terms ag up 9g forward 6g down 1.5g side-to-side and was found to conform to AC43.13-2A; cevident.	sted to the following:  chapter 1, paragraphs 2 & 3 requirements. No permanent deformation of structure was
The system will be maintained in accordance part 43, appendix D, to ensure continued com	with the manufacturer's instructions and inspected at the aircraft annual as per FAR appliance.
The above installation has been functionally (FAR23.1301 and FAR23.1431 requirements.	checked in accordance with the manufacturer's instructions and found to meet
	End
	Additional sheets are Attached

US Department of Transportation

Federal Aviation

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) Form Approved OMB No 2120-0020 For FAA USE ONLY Office Identification

Administration a all antries see EAR 43.0 appendix h, and AC43.9-1(or subsequent revision thereof) for instructions and

INSTRUCTION	NS: Pi	rint or	type all entries	see	FAR 43.	9 appendix	b, a	nd AC4.	3.9-1(or subseq	uent rev	vision there	eot) for instructi	ions and		
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each such violation	on (Se	ection		atio	n Act of	1958)		T. M. I.I.							
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1. Aircraft			Republic					RC-3							
			Serial No.						Nationality and Registration Mark						
			615					USA	N6386K	6386K					
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alteration 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.)
This 337 is a follow up on 337 form dated July 23, 2002 for the Garmin GNC300XL GPS/Com.
The Garmin GNC300XL GPS is a is a TSO-C129a Class A1 GPS supplemental navigation system installed for use under VFR or IFR conditions for oceanic enroute, terminal, and non-precision approach operations.
The Garmin GNC300XL has been STC'D for en-route, terminal, and non-precision approach IFR operations in a Piper PA-32 Series Aircraft under STC No. SA00640WI. This installation data was reviewed and used as a reference in accomplishing the installation.
The Garmin GNC300XL was installed, and tested in accordance with Apollo GX50 installation manual No. 190-0067-22 Rev. E.
An FAA approved Flight Manual Supplemental dated $\frac{7/36/2}{2}$ will be placed in the aircraft records. See attachment.
A date evaluation in accordance with FAA AC20-138 was performed to evaluate installation of peculiar items such as antenna location, cockpit layout, electrical load, and system interfacing.
The unit was given a post installation checkout in accordance with the manufacturers installation manual Section 4 in all areas applicable to the Garmin GNC300XL GPS and flight tested in accordance with the same manufacturers installation manual and FAA AC20-138 paragraph 8.
Maintenance Requirements: To ensure integrity, this system will be checked in accordance with the manufacturers maintenance manual and a functional test as incorporated into the controller through the use of the functional selector switch and associated indicating modes. The system will be maintained as prescribed in FAA AC20-138. This installation and IFR approval is predicted on the RNAV system being maintained in accordance with the manufacturers maintenance manual during any maintenance performed on the system.
The functional check has to be performed prior to IFR operations.
End

Additional sheets are Attached

#### United States Of America

## Bepartment of Transportation - Federal Abiation Administration

# Supplemental Type Certificate

Number SA3601SW

This Certificate issued to

Atticus Steven Hensley 1207 Wenlow Drive Murfreesboro, TN 37130

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product - Type Certificate Number:

A-769

Make: STOL (Republic)

Model.

RC-3

Description of Type Design Change:

Installation of replacement tail wheel tire and tail wheel rim assembly in accordance with Edmond F. Freeman Report No. II, Revision C, dated 4/7/86, and Report No. III, Revision B, dated 4/7/86, or later FAA approved revision.

Limitations and Conditions:

Compatibility of this modification with other previously approved modifications must be determined by the installer.

Zill findin is unthought one time use I this StC on his Rf3 This certificate and the supporting data which is the basis for approval shall remain in effect whill surrendered, suspended, revoked or a termination date is otherwise established by the Bilministrator of the Federal Aviation Administration.

Date of application: January 23, 1986 Date of issuance: April 10, 1986

Date reissued: July 24, 1996

Date amended:

.By direction of the Administrator

Manager, Special Certification Office

Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

EDMOND F. FREEMAN Report No. II, Revision C, dated 4-7-86, and Report No. III, Revision B, dated 4-7-86

The complete text of Freeman report No. II and No. III is available to our customers on request from Freeman Conversions, 1875 Earnest Rd, Chuckey, Tn 37641. The following excerpts will be used as a guide for the installation of STC # \$A3601SW.

Report II,	Page 7, Revis	sed 4-7-86 PARTS	LIST
Quantity	Manufacturer	Nomenclature	Part Number
2	Timken	Cone	L21549
2	Timken	Cup	L21511
2	Freeman	Spacer	Eff-1117
2	Scott	Retainer	Eff-1863
2	Freeman	Spacer	Eff-3227
1	againg agends	washer	MS200002-9L
1	Scott	Tire\wheel Assy	3245-1 (modified)
1	priline strate	Bolt (axle)	AN 10-63
1	None make	Nut	AN 310-10
2	depter profes	Washer	AN 960-1016
1	AND AND STREET	Pin	AN 380-4-4
1	mange pagents	Fitting, Lube	MS 15002-1

(Breakdown of Scott Assy.) 3227 Spacer (not used) 2ea. Retainer (modified) 2ea. 1863 1862 Spacer 13286 Cone (not used) 2ea. 13287 Cup (not used) 2ea. 18438 Bolt 4ea. 2ea. 2598 Hub (modified) lea. 2602 Gasket 10x350-4, 4ply tire lea. 350\410-4, tube

In Assuming your Axle is O.K.

If Not - you can make A New one by bound ANHO63EA