1382-1764 37 No 1620

37 FEB 5 1968

Form Approved.

Budget Bureau No. 04-R058.2

r type. Do not write in shaded areas;

		A	PPLICATION F				SS CERT	IFIC	CAI	ſΕ			thes thor	e are for FAA use o	nly. S	Do not write in shaded areas; ubmit original only to an au- f additional space is required,
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i		Al	NTILLES AIR	BOATS, II	NC.									Seaplane)
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ğ	В		RAFT CERTIFICATION			-: -:-	- (C: N		1							
3	AIRCRAFT SPECIFICATION OR TYPE CERTIFICAT				ATION DA	TA SHE	ET (Give No.		AIRV	VORTH	INESS E	DIRE	CTIV	E SUMMARY (Give	year an	nd last card No.)
CERTIFICATION	X TC-654 AIRCRAFT LISTING (Give page No(s.))							X			-(67					
#		l							SUPI	PLEMEN	ITAL TY	PE (CERT	IFICATE (Give No(s	.))	
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	t	he a	ircraft has been insp	cted and is a	irworthy	and e	ligible for th	e cl	assifi	cation	(s) re	que	stec	1.		
			APPLICATION	NAME AND	•						SIGNA		2/	\mathcal{M}	\supset	← .
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ž	IN	ACC	ORDANCE WITH FAR		AIRCRA					BEEN	INSPE	CTE	D A			
INSPECTION AGENCY VERIFICATION	2		CERTIFICATED AIR CARF (Give Certificate No.)	IEK	3	(Give	Certificate N	o.)	(IA)			1000	6	(Give Certifica		ric repair station)
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I. FAA REPRESENTATIVE CERTIFICATION	DAT	<u> </u>	Current Airworthiness	DESIGNATION			OFFICE NO				SIGNA	TIIP	F			
AA EPR	DAI			DESIGNATION	4 NO.		OFFICE NO.	FS	ית	,		_				
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UNITED STATES OF AMERICA — FEDERAL AVIATION AGENCY

MANDARD AIRWORTHINESS CERMFICATE

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١.	NATIONALITY	AND.
	REGISTRATIO	MARKS
		3 ,

2. MANUFACTURER AND MODEL

3. AIRCRAIT SERIAL

4. CATEGORY

N 8777A

Exceptions:

Grumman G-21A

1152

Mormal

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate jis issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been inspected and found to conform to the type certificate therefor, to be in condition which is safe of the convention on International Civil Aviation, except as noted herein.

NONE

6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21:43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

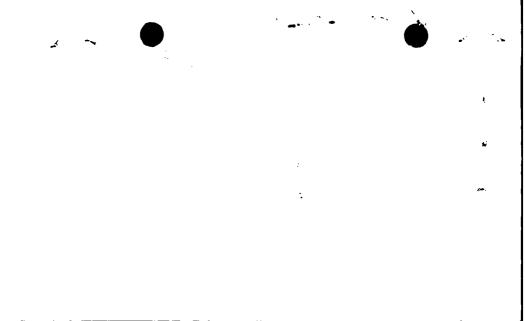
1-4-68

AN REPRESENTATIVE

DESIGNATION NUMBER

SJU-FSDO 7-5-61

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



DEPARTMENT PANSPORTATION FEDERAL AVIATION ADMINISTRATION -

orm Approved udget Bureau No. 04–R060.1

FOR FAA USE ONLY

(8320)

OFFICE IDENTIFICATION 50-FSD0-61

See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof)

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

FAA Form 337 (7-67)

INSTRUCTIONS: Print or type all entries. for instructions and disposition of this form. MAKE MODEL GRUMMAN G - 21A AIRCRAFT SERIAL NO. NATIONALITY AND REGISTRATION MARK 1152 N8777A ADDRESS (As shown on registration certificate) NAME (As shown on registration certificate) 2. OWNER ANTILLES AIR BOATS, INC. CHRISTIANSTED, ST. CROIX 00820 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPE ALTER-UNIT MODEL SERIAL NO MAKE REPAIR ATION **AIRFRAME POWERPLANT** Pratt and Whitney R - 985 - 14B210471 X **PROPELLER APPLIANCE** MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS C. CERTIFICATE NO. B. KIND OF AGENCY U.S. CERTIFICATED MECHANIC Ralph E. Faxel FOREIGN CERTIFICATED MECHANIC Ft. Worth Engine Overhaul, Inc. CERTIFICATED REPAIR STATION Loc. 18 Meacham Field MANUFACTURER Ft. Worth. Tx. 76106 D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. DATE SIGNATURE OF AUTHORIZED_INDIVIDUAL May 24, 1977 APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED OTHER (Specify) FAA FLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR CANADIAN DEPARTMENT FAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR OF AIRCRAFT DATE OF APPROVAL OR AUTHORIZED INDIVIDUAL CERTIFICATE OR REJECTION DESIGNATION NO. May 24, 1977 IA 1263781

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.)

This Pratt and Whitney R - 985 - 148 # 210471 given Major everhaml. Steel parts magnafluxed, nonferrous parts Sygle inspected.

Chrome cylinders installed, guides and sents replaced as meeded. This engine has heavy piaten pins. Magnetes everhanded, ignition harmess rebuilt.

All notes 56 - 6- 2 cylinder studs, 68-9-1 erambahaft limers.

66-14-4 cam gear and 76-20-01 cylinder heads compiled with this everhand. All note 57-5-4 erambahaft threads compiled with prior everhand. All note 57-5-4 erambahaft threads compiled with prior

everhand clearences and tolerences with in limits as shewn in Pratt and Whitney everhand manual for this engine.

Parts replaced and rework accomplished as needed.

Overhand and imprections report under work order # SSS.

Engine test run libo min.

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ASPORTATION CONTRACTOR VIDE CONTRACTOR FEDERAL AVIATION ADMINISTRATION

Approved get Bureau No. 04-R060.1

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FOR FAA USE ONLY

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

OFFICE IDENTIFICATION SJU FSDO

1 ALDCDAFT				WODEL					
1. AIRCRAFT	GRUMMAN				G-21A				
i. Alicenti	SERIAL NO. 1152			NATIONA	LITY AND REGIS	TRATION M	ARK		
·	NAME (As shown on registration certif	icate)	,	ADDRESS	(As shown on regi	stration certi	ficate)		
2. OWNER	,	•			antilles at			•	
	CARIBBEAN FLYING BOX				THOMAS, U.S	.v.I.			
		3	. FOI	R FAA USE ONLY			·- ·- · · · ·		
	A 110	UT INC	MTIF	CATION					
	4. Ur	III IUE	NIIF	CATION			5.	TYPE	
UNIT	MAKE			MODEL	SERIAL	NO.	REPAIR	ALTER-	
AIRFRAME	CLEVELAND WHEELS AND I	RAKE (As des		0-91 BRAKE d in item I above) ****** 0-127 WHEELS					
POWERPLANT									
PROPELLER									
·									
	TYPE								
APPLIANCE	MANUFACTURER]							
	<u> </u>		ONE	DAILTY CTATEMENT			<u> </u>		
A.	AGENCY'S NAME AND ADDRESS	0.	UNF	DRMITY STATEMENT B. KIND OF AG	ENCY	C. CE	RTIFICATE	NO.	
			v	U.S. CERTIFICATED MECHAN					
	RLES R. FREEHLING . Box 731		^	FOREIGN CERTIFICATED MEC	HANIC	ASP 16	17154		
	edericksted, St. Croix			CERTIFICATED REPAIR STATIC)N	Har Lo	7. 1 TO 4		
	s.v.i. 00840			MANUFACTURER					
attachme	that the repair and/or alteration ments hereto have been made in accord the information furnished herein is	ance w	rith (he requirements of Part	43 of the U.S. I				
DATE	the information ruthished herein is	true ar		NATURE OF AUTHORIZE				<u>:</u>	
Har	ch 16, 1977		ر ^ي مر ک	Thules A	Frull	2eig			
	7.	APPRO	/AL I	OR RETURN TO SERVICE					
	the authority given persons specified trator of the Federal Aviation Admini					n the mann	er prescrib	ed by	
9 DECLIPERA	FLT_STANDARDS MANUFACTURER		1	ECTION AUTHORIZATION	OTHER (Specify)		sily with	- Cir-	
BY	PECTOR	X	CAN	ADIAN DEPARTMENT		. 5 к =68.01.01	TOWN TOWN TO THE REAL PROPERTY.	KER-36; *EH-3	
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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.)

prake assemblics (2) Hayes Model H-2-102 Removed mani landing gear wheels (2) Hayes Model # G3-56A together with

Installed Cleveland Aircraft Products, Inc., (2) Brake Assemblies Model #30-91 together with (2) Wheel Assemblies Model #40-127 32X8.8

TYPE VII.

Weight Removed = 80 lbs. 6 ARM 10 $\frac{699-}{1000}$

Weight Added = 119 lbs. @ ARM 10" = $\frac{1190}{1000}$

Weight Change = + 39 lbs. Moment Change = -.39 I.U.

SIC # SA GL December 3, 1975

MEE: DIMC # 40-151

DEMC # 30-6T

NOTHING FOLLOWS.

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

FAA Form 337 (7-67)

n Approved budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SJU FSD O

							1			44-0-DT
	IONS: Print or typons and disposition		FAR 4	43.9,	FAR 43 Appe	endix B, and	AC 43,9-1 (or	subsequent	revision (hereof)
	MAKE G	RUMMAN		,		MODEL	G	21A		
1. AIRCRAFT	SERIAL NO.	152		_		NATIONALI	TY AND REGIST		ARK	
	NAME (As shown o	n registration certifi	cate)			ADDRESS (A	As shown on regis	tration certif	îcate)	
2. OWNER	ANTILLES A	IR BOATS, IN	C				E RAMP, VE		RIVE	
					R FAA USE ON	LST, THO LY	MAS, U.S.V	.1.		
•		4. UN	IT IDI	ENTIF	ICATION				5	TYPE
UNIT	MA				MODEL		SERIAL	NO.		ALTER-
									REPAIR	ATION
AIRFRAME	******	•••••••••••••••••••••••••••••••••••••••	As des	scribe	ed in item 1 ab	ove)	*********	₩		x
							Γ			ļ. <u></u>
POWERPLANT		:								
PROPELLER			•							
PROPELLER										
	TYPE									
APPLIANCE	MANUFACTURER				•		_			
			6.	CONF	ORMITY STATES					
	AGENCY'S NAME				U.S. CERTIFICA	ID OF AGE		C. CER	TIFICATE	NO.
P.O. Bo	R. FREEHLIN	G		X	FOREIGN CERTI			N C TO 1 C	17161	
	.cksted, St.	Cmix			CERTIFICATED R	EPAIR STATION		A&P 16	11124	
U.S.V.I					MANUFACTURE	ł				
D. I certify	that the repair and nts hereto have bee	d/or alteration ma	de to	the	unit(s) ident	ified in item	4 above and 6	described of	n the rev	erse or
and that	the information fu	rnished herein is t	rue a	nd co	orrect to the b	est of my k	nowledge.	cociai iivia	non reg	ulations
DATE	•			SIG	NATURE OF	AUTHORIZED	INDIVIDUAL			
18 Marc	h 1977		•	- 7	AN M	las Set	-1.10)	•	
	<u></u>	7.	APPRO	VAL	FOR RETURN TO	O SERVICE	June.	- J		
Pursuant to	the authority given trator of the Federa	persons specified I Aviation Adminis	below	, the	unit identified is	d in item 4	was inspected in	n the manne	er prescri	bed by
FAA	FLT. STANDARDS	MANUFACTURER		T -	PECTION AUTHORI		OTHER (Specify)			
BY INSP	ECTOR		X		IADIAN DEPARTM					
FAA	DESIGNEE	REPAIR STATION		1	TRANSPORT INSP AIRCRAFT	ECTOR				
DATE OF APP	ROVAL OR	CERTIFICATE OR		SIG	NATURE OF	AUTHORIZED	INDIVIDUAL) //		A 1
	March 1977	I.A. 16171			CHARLES R	. FREEHL	ING	, lock	120	lling
			-							

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 installation of one (1) each left and right, Hartzell Propeller Hub Model # HC-B3Z30-2E. Found install on this alreraft in accordance with Hartzell Propellers Inc., STX SAI-52, Drawing #D1860.

Propellers Inc., STX SAI-52, Drawing #D1860.

Plight Manual modified for this installation.

FEDERAL AVIATION ADMINISTRATION

m Approved Budget Bureau No. 04–R060.1

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OFFICE IDENTIFICATION RIU FSDO

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

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. MODEL MAKE 5-21A GRUMMAN 1. AIRCRAFT SERIAL NO. NATIONALITY AND REGISTRATION MARK 1152 N3777A ADDRESS (As shown on registration certificate)
Wasplane Ramp, Veterans Drive NAME (As shown on registration certificate) 2. OWNER ANTILLES AIR BOATS, INC.,. St. Thomas, U.S.V.I. 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPE ALTER-UNIT MAKE MODEL SERIAL NO. REPAIR ATION **AIRFRAME** X **POWERPLANT PROPELLER** TYPE APPLIANCE MANUFACTURER 6. CONFORMITY STATEMENT B. KIND OF AGENCY C. CERTIFICATE NO. A. AGENCY'S NAME AND ADDRESS X U.S. CERTIFICATED MECHANIC CHARLES R. FREEHLING ASP 1617154 FOREIGN CERTIFICATED MECHANIC P.O. Box 731 CERTIFICATED REPAIR STATION Frederiksted, St. Croix 00840 MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. DATE SIGNATURE OF AUTHORIZED INDIVIDUAL 10 March 1977 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED OTHER (Specify) FAA FLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR BY CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR FAA DESIGNEE REPAIR STATION OF AIRCRAFT DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL REJECTION DESIGNATION NO.

CHARLES R. FREE!

I.A. 1617154

10 March 1977

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.)

Installation of Carrier Aircraft Inc., seats and floor found to be installed in accordance with Drawings G-21-1001, G-21-1002 and G-21-1003, approved under TSO C-39. Two (2) each lounges manufactured by Carrier Aircraft, Inc., to TSO standards under TSO C-39. See attached drawing (2 sheets) G21-1001. Four (4) asch seats manufactured by Carrier Aircraft Inc., to TSO standards under TSO-C-39. See attached drawings (2 sheets) G21-1001. Four (4) TSO-C-39. See attached by Carrier Aircraft Inc., to TSO standards under TSO-C-39. See attached by DER IA-321 affixed to this report. This aircraft adults were attached drawings (2 sheets) G21-1001. The mentioned seats and adults and 1969 #621-1 approved by DER IA-321 affixed to this report. This aircraft necessary to reflect these changes. All the mentioned work done in accordance necessary to reflect these changes. All the mentioned work done in accordance necessary to reflect these changes. All the mentioned so in accordance of 43-13-1, chapter 2, eaction 3, paragraph 130-136.

NOTHING FOLLOWS.

DEP ENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form						
Budge	t Bur	eau	No.	04	-R060.1	
	EOP	E4	4 17	CE	ONLY	_

FOR FAA USE ONLY

OFFICE IDENTIFICATION

SO-FSDO _ 7-5-61

INSTRUCT	IONS: ons and	Print or type all entries. disposition of this form	See FAR	43.9, FA	R 43	Appendix	B, and	AC 4	3.9-1	(or subsequer	nt revision	thereof)
	MAKE					MOI)EL					

	MAKE	GRUMMA N			MODEL	G-21-A			
1. AIRCRAF	SERIAL NO.	GUDIMINIA IA			NATIONALI'	TY AND REGIST	TRATION MA	\RK	
<i>:</i> .		1152				N8777A		•	
0 00000	NAME (As shown	on registration certific	cate)	•	ADDRESS (A	As shown on reginated Rami	stration certifi	cate) ans D	rizve
2. OWNER	Antilles	Air Boats	Inc.			omas V.I			, -
				FOR FAA USE ON	LY				
~ .							.,		
	•								
						•	•	•	
		4. UN	IT IDEI	NTIFICATION		, , ,		-5.	TYPE
UNIT		AAKE		MODEL	•	SERIAL	NO. '	REPAIR	ALTER-
	-					1			ATION
AIRFRAME	******	••••••••••(As des	cribed in item 1 ab	ove) ******	••••••	•	·	
					•	 	<u></u> +++	<u> </u>	
POWERPLA	NT						•		
	PRATT & WHITN	EY R	<u>-985</u>	-AN-1	42	-112175	Σ		
PROPELLER				-					
	ТҮРЕ								
APPLIANCE	MANUFACTURER								
			6. C	ONFORMITY STATEM			0.050		
A	. AGENCY'S NAME	AND ADDRESS	X	U.S. CERTIFICA	ID OF AGE		C. CER	TIFICATE	NO.
JOE H.	STOY		^	FOREIGN CERTI					
	ES AIR BOATS,	INC.		CERTIFICATED R	EPAIR STATION	l	P 133300	10	
ISLA GE	RANDE AIRPORT,	SAN JUAN, P.R.	[MANUFACTURE	l	Ac	P 133300		
attach	ify that the repair a ments hereto have b nat the information f	een made in accorda	nce w	ith the requireme	nts of Part 4	i3 of the U.S. F	described or Federal Aviat	the reve ion Regu	erse or lations
DATE				SIGNATURE OF	AUTHORIZED	INDIVIDUAL	1.		
			Ì	10	greph	W. S	tou		l
FEBUAI	RY 25,1976	7. 1	APPROV	AL FOR REFURN TO		7 7 7			
	to the authority give	en persons specified	below,	the unit identifie	d in item 4	was inspected in	n the manne	r prescrib	ed by
	AA FLT. STANDARDS NSPECTOR	MANUFACTURER X		INSPECTION AUTHORI	ZATION	OTHER (Specify)			
1 1	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTM OF TRANSPORT INSP OF AIRCRAFT			2		
DATE OF A	APPROVAL OR	CERTIFICATE OR DESIGNATION NO		SIGNATURE OF	AUTHORIZED	S INDIVIDUAL	011	,	
	-25-76	1333009 A.I.		1 100	-you		//		
FAA Fom	n 337 (7-67)					ν	•	(1	B320)

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.)

Engine received this systion for overhaul, engine given imapection and completely dis-assembled. All parts cleaned. All steel parts magnafluxed. All parts inspected in accordance with manufacture's specifications and replaced where necessary, overhaul magnetos and harness and installed in engine. Test cell run di engine as per manufacture's specifications.

Time since overhaul 00:00 hours.

FAA AD Note 66-14-4 previously complled with. FAA AD Note 57-5-4 " " ". TAA AD Note 58-9-1 " . TAA AD Note 56-6-2 complied with.

Service bulletin 1658-B previously complied with.

NOTHING FOLLOWS

241146 A ST1148 A ST1181 3

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

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION ASO-F500 - 6

INSTRUCTIONS: Print or type all entries See FAR 43 0 FAR 43 Appendix R and AC 43 0

for instruction	ons and disposition	n of this form.	·AR	-J.7,	TAIC 45 Appel		71C 45.9=1 (Or	aubacquent 1	evision ti	iereor)
	MAKE	UMMAN				MODEL	G-21A			·
1. AIRCRAFT	SERIAL NO.	52					Y AND REGIS	TRATION MA N8777A		
		on registration certifi	cate)			ADDRESS (A	s shown on regi	stration certif	icate)	
2. OWNER	ANTILLEN	AIR BOATS, I	NC.				ne Ramp. V omas. V. I			
			3	. FOR	R FAA USE ONL					
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		4. UN	IIT IDE	ENTIFI	CATION				5. 1	TYPE
TINU	M.	AKE			MODEL	_,·	SERIAL	NO.	REPAIR	ALTER- ATION
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POWERPLANT										
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	1x, <u>V. I.</u>					<u> </u>			•	
attachme	nts hereto ĥave be	d/or alteration made in accord in the cord in accord in the cord is a cord in the cord in	ance v	with t	he rèquiremen	its of Part 4	3 of the U.S.			
DATE /	94-10-19	7# /1 VII		SIG	NATURE OF A	UTHORIZED	INDIVIDUAL			
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	FLT. STANDARDS PECTOR	MANUFACTURER	X		ECTION AUTHORIZ		OTHER (Specify)			
FAA	DESIGNEE	REPAIR STATION		OF T	ADIAN DEPARTME TRANSPORT INSPE AIRCRAFT	CTOR) 1		
DATE OF APP	roval or	CERTIFICATE OR DESIGNATION NO	0. 2.	SIGN	NATURE ØF/A	AUTHORIZE	INDIVIDUAL	[J]]		,
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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 air-craft nationality and registration mark and date work completed.)

Removed Grumman G-SlA engine ring cowls, p/n 13076, together with mounting brackets.

Beechcraft C-18 engine cowlings modified in accordance with Pan Air Corp. drawings $\text{ML-010}\mu$ dated 5/7/65 and $\text{ML-010}\mu$ 1 dated 6/15/65.

Beechcraft cowl support brackets, p/n 185 5916 and engine cowlings, upper; p/n 404-185901 - lower, p/n 185903 installed under S.T.C. #SA5515W dated 8/31/65.

Weight and balance correction entered in aircraft log book.

- - - MOLHING LOTTOME - - -

INT 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 DEDITION

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INSTRUCT	FIONS: Print or t	ype all entries. See	FAR	43.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or			nereof)
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1. AIRCRAFT	GR	UMMAN		·		G=21A	•		
r. Ainckari	SERIAL NO.				NATIONAL	ITY AND REGIS	TRATION M	ARK	
		52			. N	8777A			
	NAME (As shown	on registration certif	icate)		ADDRESS (As shown on regi	stration certi	ficato)	
2. OWNER	Antilles	Air Boats, I	no.		Seapla	me Ramp, V	eter ans	Drive	
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	s Air Boats	. Inc.		CERTIFICATED RE					
St. Thoma	8, V. I. 0	0801		MANUFACTURER					
D. I certify	that the repair as	nd/or alteration ma	de to	the unit(s) identi	fied in item	4 shove and	lacaribad as		
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FAA Form 337 (7-67)

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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 air-craft nationality and registration mark and date work completed.)

provided as follows:

In order to facilitate inspection of rudder and elevator push-pull rods,

I) In order to facilitate inspection of rudder and elevator push-pull rods,

A. One hole made on each side of the hull between hull stations nine and ten, 16.5 inches above the chine, 14.5 inches forward of each main gear well. All corners 5/16" radius.

B. One doublar of 2024T3 X.050 X 10 3/4 " X 9 3/4" riveted on the inside of the decess hole. Double row of rivets used with 1" spacing as in skin joints of dirframe.

C. A hole of 5 1/4" vertical dimension and 6.5" Longitudinal dimension has been cut in the doubler and provides actual inspection facilities as mentioned above.

D. #8 X 32 Gang-nut channel with 3/4" spacing provides the attachment of water tracker tight door on wheel well on A/H side of hull. Over installed on Sealant surface and torqued in same manner as wheel well inspection door.

E. All work done in accordance with Grumman Structure and Repair Manual S. Paragraphs 4 thru 8. Section 3, Paragraphs 4 thru 8.

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PARTMENT OF TRANSPORTATION FEBERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

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INSTR for inst	UCT	ONS: Print on and dispo	or typ	oe all entries. See	FAR 4	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1	(or su	bsequent 1	evision th	iereof)
1 AIDCD	AFT	MAKE	G	RUMMAN				MODEL	G-21A	1			
1. AIRCRA	AFI	SERIAL NO.	.1	152				NATIONALI	1 ALB %	FGISTRA 7A	ATION MA	ARK.	
2. OWNE	R	NAME (As sho ANTILLES	S Al	n registration certific R BOATS, INC	ate)	: .		SEAPLANE ST. THOM	RAMP, On IAS, U.S.	veiter S. VII	HANS ^{er} DA RGIN IS	erve Slands	00801
					3	. FOR	FAA USE ON	LY					
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AIRFRAME (As de						scribed	l in item 1 ab	ove) ******	******	*****		Х	ATION_
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attac	chmer	its hereto hav	e be	d/or alteration ma en made in accorda irnished herein is t	nce w	with tl	ne requireme	nts of Part 4	3 of the U	and des J.S. Fed	scribed or eral Aviat	the reve	erse or lations
DATE		8/30/7	22			SIGN	NATURE OF	AUTHORIZED	NOIVIDU	AL			
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Pursuan the Adn	nt to t	he authority rator of the F	giver edera	persons specified Aviation Administ	ration	v, the n and	unit identifie is APPI	d in item 4 ROVED	REJECTED		the manne	r prescrib	ed by
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applicable airworthiness requirements. An alteration must be compatible with all previous alterations to assure continued conformity with the Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

craft nationality and registration mark and date work completed.) Identify with air-8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets.

wing tip was new Grumman part. Aight wing tip replaced from station 271 to 294. New butt rib installed.

Mose section replaced from station o to station 3 with used Grumman part.

Station 3 bulkhead replaced with new bulkhead made some as original. ξ.

Hight lower side skin replaced from station 1 to station 11. *

• 9 Right middle skin replaced from station 1 to station 9.

Right upper side, skin replaced from station 3 to stations.

Bottom fron inner and bottom front outer skins left and right replaced from ٠,

station 1 to station 3.

Right side chine replaced from station 1 to station 11.5. .8

Right side chine replaced from station 13 to station 16.5. •6

10. Right side wheel pocket skin repaired from station 14 to station 18.

11. Replaced spray rail right side from station 0 to station 9.5.

Replaced spray rail left side from station 0 to station 7. .SI

13. Insertion repair on bottom at station 15.

14. False step repaired left and right side station 16.

15. Insertion repair on bottom station 16 to station 18.

VIT MOHK VS LEH CHINWWAN STRUCTURAL REPAIR MANUAL AND AC-43-13-1,

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form A	l <i>pproved</i>		
Budget	Bureau	No.	04-R060.1

FOR FAA USE ONLY OFFICE IDENTIFICATION
7-5-61

		CTIONS: Print or tions and dispo		be all entries. See	FAR 4	43.9,	FAR 43 App	endix B, and	AC 43.9-1 (or	subsequent 1	evision th	nereof)
		MAKE		GRUMMAI	V			MODEL	G-21A	11. <u>-</u>		
1. A	IRCRAFT	SERIAL NO.		1152				NATIONALI	TY AND REGIST	RATION MA	RK	
2. 0	WNER			on registration certifi TR BOATS, INC				SEAPLAN	As shown on regis	TERANS L	RIVE	7
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				ES AIR BOATS,	INC		CERTIFICATED F	REPAIR STATION	1	1814610	A&P	
	•	ST. THOM				<u> </u>	MANUFACTURE	R				
D.	attachn	ients hereto hav	e be	d/or alteration ma en made in accord irnished herein is i	ance v	vith	the requireme	nts of Part 4	i3 of the U.S. F	described or ederal Aviat	the reve ion Regu	erse or lations
DATE		6/2/72			(Z	TRATURE OF	Bari	Afone	w —		
				7.	<u>APPRO</u>	VAL	FOR RETURN T	O SERVICE	7			
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BY		A FLT. STANDARDS		MANUFACTURER	X	ļ	PECTION AUTHOR		OTHER (Specify)			
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NOLICE

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 air-craft nationality and registration mark and date work completed.)

Left elevator serial #008 recovered with Grade A fabric. All work performed in accordance with AC-43-13-1, chapter 3, fabric covering section 1 and section 2.

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EPARTMENT 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
FICE IDENTIFICATION

OFFICE IDENTIFICATION

IN for	STRUCT instruction	IONS: Print o	or typ	oe all entries. Se	FAR	43.9	FAR 43 Appe	endix B,	and .	AC 43.9-1 (or	subsequent	revision t	nereof)
		MAKE		GRUMMAN			· · · · · ·	MODEL		G-21A			
1. AI	IRCRAFT	SERIAL NO.		1152						Y AND REGIS	TRATION MA	ARK	
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NOLICE

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 air-craft nationality and registration mark and date work completed.)

Right Aileron serial #007 recovered with Grade A fabric. Allwork done in accordance with AC-43=13=1, Chapter 3, Fabric covering section 1 and section 2.

---SMONIGH DNIHLON-

U.S. GOVERNMENT PRINTING OFFICE: 1967 OF-272-085

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 FOU

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. MAKE MODE no man 1. AIRCRAFT NATIONALITY AND REGISTRATION MARK ADDRESS (As shown on registration certificate) NAME (As shown on registration certificate) 39 Strand St, Christiansted 2. OWNER St.Croix, US Virgin Islands ANTILLES AIR BOATS. INC. 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPE ALTER-UNIT MODEL SERIAL NO. MAKE REPAIR ATION **AIRFRAME POWERPLANT** 17934 PRATT & WHITNEY R985-AN3 X **PROPELLER** TYPE **APPLIANCE** MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. U.S. CERTIFICATED MECHANIC EIGHTH AIR DEPOT. INC. 3610 FOREIGN CERTIFICATED MECHANIC POWER PLANT SEBRING AIR TERMINAL CERTIFICATED REPAIR STATION CLASS 1 & 2 P.O. Box 631 MANUFACTURER SEBRING, FLORIDA D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. DATE AUTHORIZED INDIVIDUAL February 12, 1970 Chief Inspector /Dumont. 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED OTHER (Specify) FAA FLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR BY CANADIAN DEPARTMENT FAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR OF AIRCRAFT DATE OF APPROVAL OR CERTIFICATE OR AUTHORIZED, INDIVIDUAL DESIGNATION NO. 3610 Dumont Chief Inspector February 12,1970

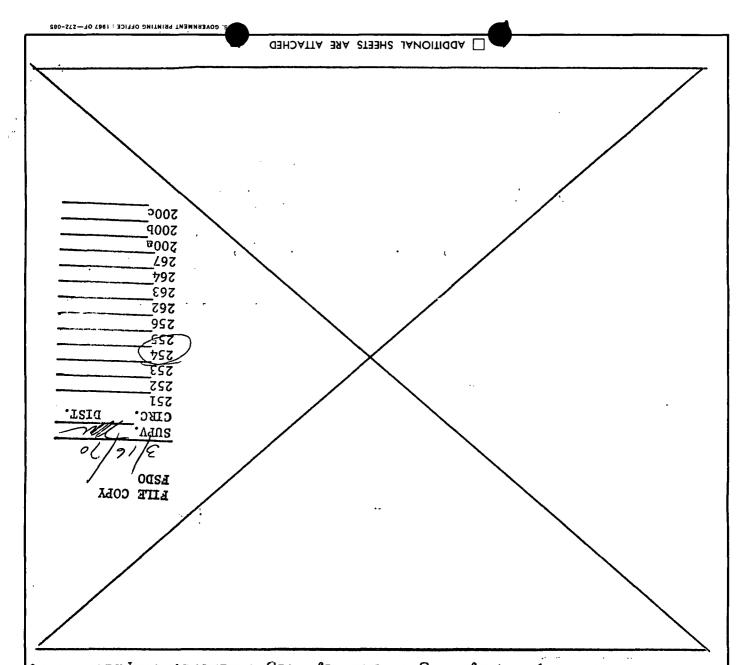
NOLICE

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 air-craft nationality and registration mark and date work completed.)

Engine received this station for overhaul. Engine given receiving magnetos and harres completely disassembled and all parts cleaned. All manufacturer's specifications and replaced where necessary. Engine, magnetos and harres completely overhauled. Test house run of engine satisfacturer: Time since overhauled. Test house run of engine satisfactory. Time since overhauled.

FAA A.D. Note 56-6-2 complied with(Cylinder Inspection). FAA A.D. Note 57-5-4 has been complied with (Crankshaft). FAA A.D. Note 66-14-4 (One Piece Cam Reduction Gear)complied with. FAA A.D. Note 66-14-4 (Fly Weights and Fly Weight Liners) complied with.





DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

7-5-61

OFFICE IDENTIFICATION FSDO

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

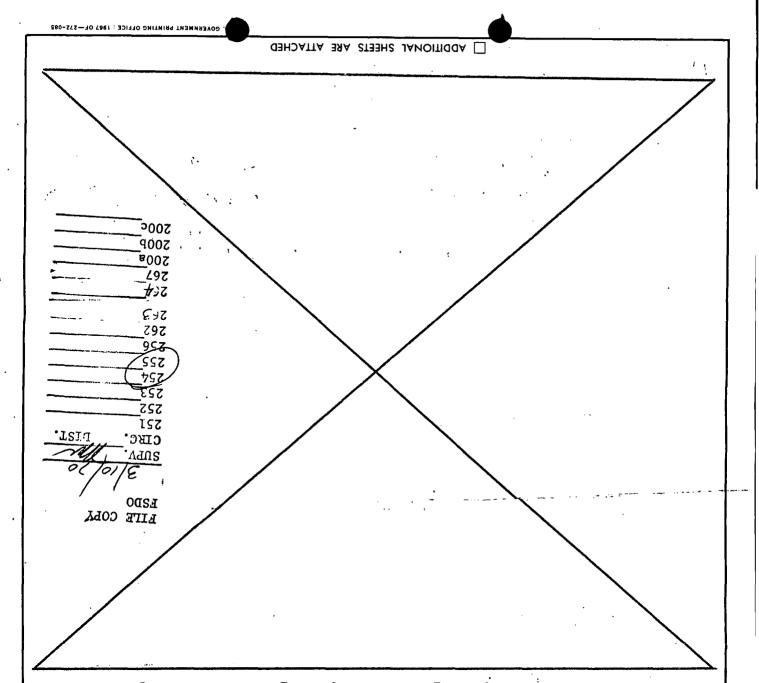
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Pursu	ant to t	the authority	given	persons specified h	elow	the unit identifie		was inspected in	the manne	r ntescrib	ed by
the A	dminist	rator of the F	edera	l'Aviation Administ	ration	and is APPF	OVED T	REJECTED		- present	
BY -		FLT. STANDARDS ECTOR		MANUFACTURER		INSPECTION AUTHORIZ		OTHER (Specify)			
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applicable airworthiness requirements. An alteration must be compatible with all previous alterations to assure continued conformity with the Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

craft nationality and registration mark and date work completed.) 8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air-

.U.A AAY PAA A.D. Note 57-5-4 has been complied with (Crankahaft). PAA A.D. Note 56-6-2 complied with (Cylinder Inspection). setisfactory. Time since overhaul 00:00 hours, magnetos and harness completely overhauled Test house run of engine manufacturer's specifications and replaced where necessary. Engine, steel parts magnafluxed. All parts inspected in accordance with inspection, completely disassembled and all parts cleaned. All Engine received this station for overhaul. Engine given receiving

PAA A.D. Note 68-9-1 (Fly Weights and Fly Weight Liners) complied with. Note 66-14-4 (One Piece Cam Reduction Gear) complied with.



FEDERX /IATION AGENCY

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

Form A	pproved		
Budget	Bureau	No.	04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION FSDO

INSTRUCT	TIONS: Print or typons and disposition	e all entries. See In of this form.	FAR 4	43.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	7-5-6. revision th	
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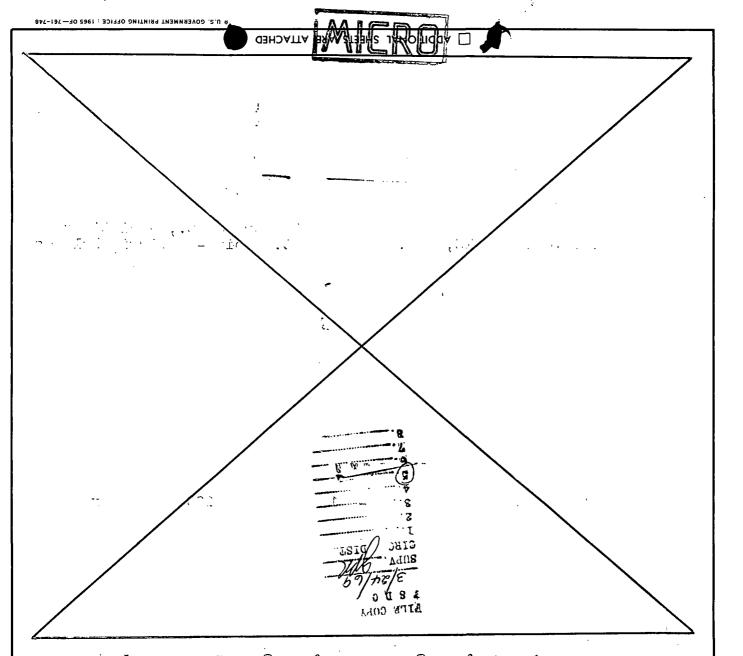
CONVEYANCE LEU WITH NOTICE

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 airworthings fequirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (IN MODE) space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Engine received this station for overhaul, Engine given receiving manufacturer's specifications and replaced where necessary, Engine manufacturer's specifications and replaced where necessary, Engine magnetos and harness completely overhauled, Test house run of engine satisfactory, Time since overhaul 00:00 hours,

FAA A.D. Note 57-5-4 has been complied with (Cylinder Inspection). FAA A.D. Note 57-5-4 has been complied with (Crankshaft). FAA A.D. Note 66-14-4 (One Piece Cam Reduction Gear) complied with. FAA A.D. Note 68-9-1 (Fly Weights and Fly Weight Liners) complied with.



FEDERAL AVIATION AGENCY

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

rm Approved Sudget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION 7-3-08

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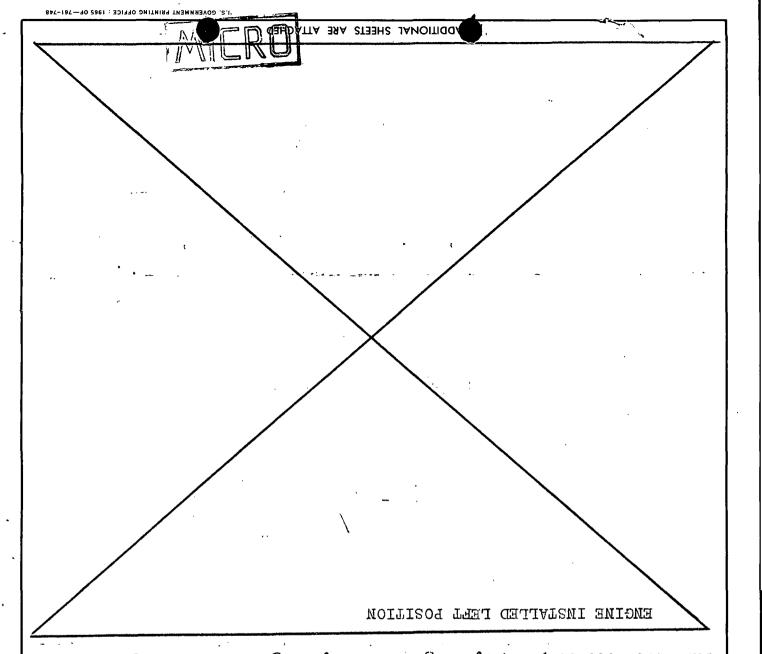
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HATION AGENCY

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION FSDO

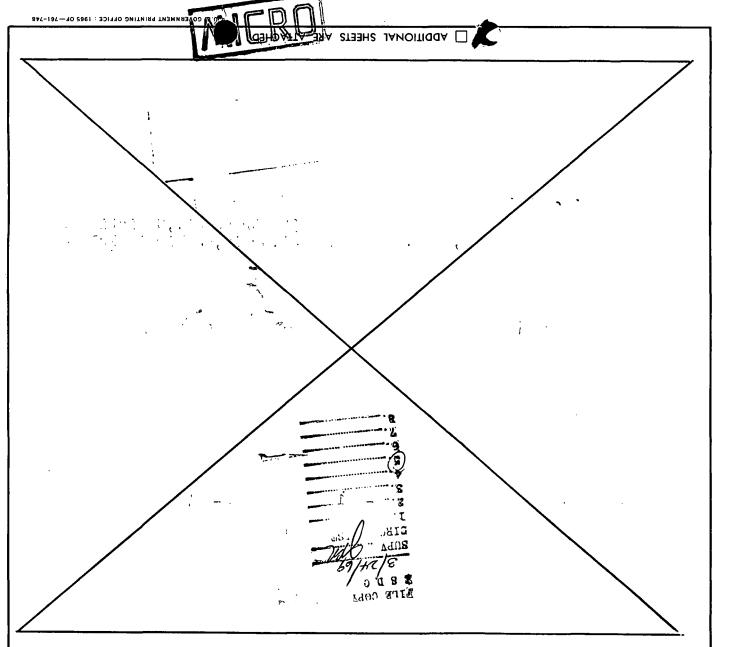
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MINISTÈRE DES TRAVAUX PUBLICS ET DES TRANSPORTS

SECRÉTARIAT GÉNÉRAL A L'AVIATION CIVILE

CERTIFICAT DE NAVIGABILITÉ

1 - Marques de nationalité et d'immatriculation

F-OBYU

2 - Constructeur et désignation du type de l'aéronef

GRUIMAN Aircraft Corp.

Avion: GRUMMAN GOOSE G.21.A

1152

de l'aéronef

3 - Nº de série

- 4 Mentions d'emploi: TRANSPORT PUBLIC DE PASSAGERS 3
- 5 Le présent Certificat de Navigabilité est délivré à l'aéronef ci-dessus désigné, conformément à la Convention relative à l'Aviation Civile Internationale en date du 7 Décembre 1944 et aux Règlements Français.

Cet aéronef est réputé apte au vol lorsqu'il est entretenu et utilisé conformément aux textes précités et aux limites d'emploi applicables.

Poids total maximum admissible: 8.000 lbs. 8900 lbs (4050K)
exclusivement en VFR. (5299/DTA da 3-10.64 de 56AC)

Délivré le 10 0 JUIL 1964

Le Secrétaire Général à l'Aviation de livile

Signé: P. COMBES

	Valid	lité du Certifi	Validité du Certificat de Navigabilité	iité	
Date et lieu de l'examen	Résultats de l'examen Durée de validité	Signature	Date et lieu de l'examen	Résultats de l'examen Durée de validité	Signature des Experts
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SERVICE DE L'AÉRONEF - AIRCRAFT RECORD

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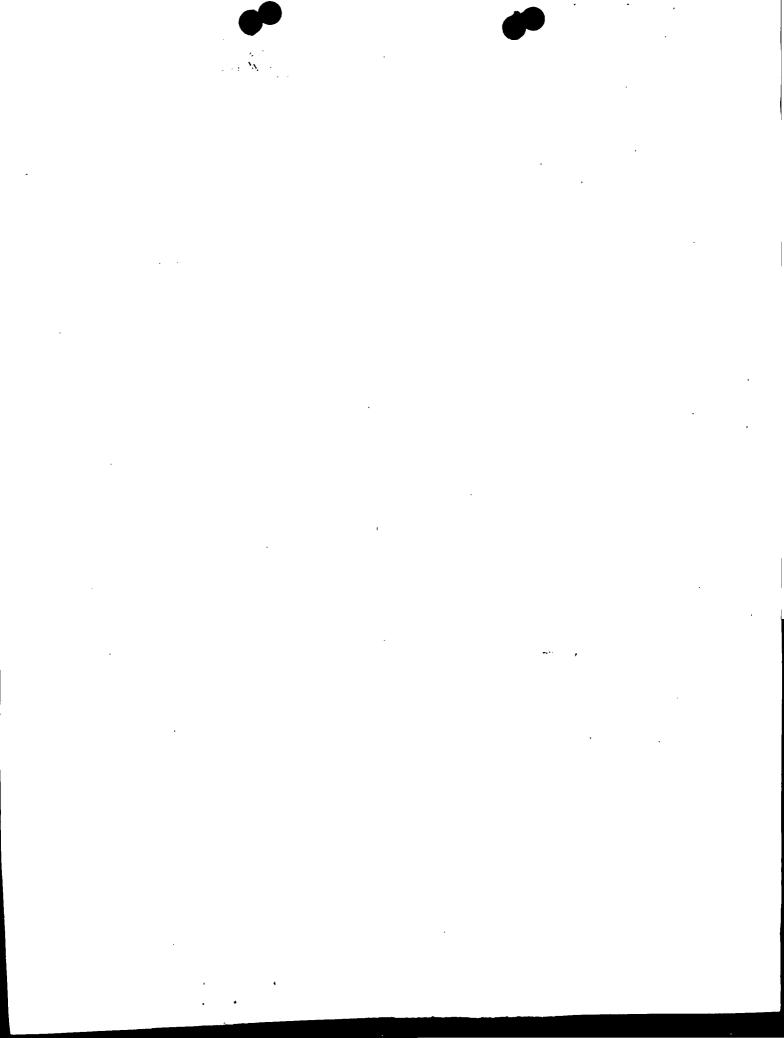
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TOPY SOR CETTIONS

ANTILLES AIR BOATS, INC. GRUMMAN G21A "GOOSE" AIRFRAME 100 HOUR INSPECTION

MIRFRANE T.T. 4063:38

	DATE 18-(2.65		•
NO ITEM	ITEM	MECH	INST.
COCKPI	IT .		
1.	Check seats for condition, rust; corrosion in surrounding areas; seat belts.	ب	2/ -
2.	Check service tag on fire extinguisher, reweight if seal broken. Check mount bracket.		new
3.	Check windows for condition, security and operation. Check windshield.		dem
4.	Check instruments for condition, proper markings, clean glasses, pointers zeroed. Check altimeter for proper reading at current barometric pressure.		h
5.	Clean D.G., horizon and T.B. instrument filters, also master suction relief valve screen.		
6.	Shut off fuel selector, pull and check "C" strainer, reinstall and resafety. Turn fuel on and pressure check strainer. Open all sump drains and check for water.		
7•	Check beneath instument panel for panel mounts condition, lines, hoses, electrical, etc.	01	PR
8.	Check tag on engine CO ₂ bottle, hand pull break-away wire, blow out plug.	1 Na	
9•	Service brake reservoir to within 'g" from top. (Lockheed fluid - white)		
10.	Check all cables, pulleys, fairleads, push- pull rods, bearings, safetys, tab drums, chains, turnbuckles, etc., beneath panel and cockpit floor. Lubricate where necessary.	-	
11.	Operate all controls, check visually, run tabs check for stiffness, binding, etc. Check tab settings.	7	

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No. Item Mech. Insp. 12. Pull drain plug from flap vacuum tank, check for corrosion, fuel, etc. Check vacuum gauge. 13. Check bow compartment for corrosion, bilges, placards, radio rack, security, anchor and line condition. Open and inspect nose through hand hole cover. 14. Inspect overhead panel, wiring, chafing, etc. Lubricate all engine controls. 15. Check behind seats, window ledges, etc., for corrosion, rusty hardware, clamps. PASSENGER COMPARTMENT 1. Check seats, recline mechanism, belts for condition, security, upholstery, headliner for tears, cleanliness. 2. Check emergency exit, all doors for seal condition, placards, lubricate hinges, handles. 3. Check windows for condition, evidence of water leaks. 4. Check fire bottle for broken seal, tag date. 5. Check first aid kit for condition, contents, life vests, condition, dates. 6. Check ventilators for cleanliness. FLIGHT CONTROLS 1. Check cables, pulleys, fairleads, chains, safetys, throughout; system. Grease fairleads where applicable. 2. Check aileron, elevator, rudder, flap for condition, bearings, push-pull rods, hardware, etc. (Lubricate where needed.)			,	
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12. Pull drain plug from flap vacuum tank, check for corrosion, fuel, etc. Check vacuum gauge. 13. Check bow compartment for corrosion, bilges, placards, radio rack, security, anchor and line condition. Open and inspect nose through hand hole cover. 14. Inspect overhead panel, wiring, chafing, etc. Lubricate all engine controls. 15. Check behind seats, window ledges, etc., for corrosion, rusty hardware, clamps. PASSENGER COMPARTMENT 1. Check seats, recline mechanism, belts for condition, security, upholstery, headliner for tears, cleanliness. 2. Check emergency exit, all doors for seal condition, placards, lubricate hinges, handles. 3. Check windows for condition, evidence of water leaks. 4. Check fire bottle for broken seal, tag date. 5. Check first aid kit for condition, contents, life vests, condition, dates. 6. Check ventilators for cleanliness. FLIGHT CONTROLS 1. Check cables, pulleys, fairleads, chains, safetys, throughout:system. Grease fairleads where applicable. 2. Check aileron, elevator, rudder, flap for condition, bearings, push-pull rods, hardware, etc.			Mecn.	Insp.
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tion, bearings, push-pull rods, hardware, etc.	2.	Check aileron, elevator, rudder, flap for condi-		
(Lubricate where needed.)	ļ			>
		(Lubricate where needed.)	12	<u> </u>



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GRUMMAN G21A "GOOSE" AIRFRAME 100 HOUR INSPECTION

Page 3.

ITEM NO	TT FIM	MECH	TNSP
FLIGHT	CONTROLS (Cont.)	14: 147 119	LINGE
3,	Check all tab drums, drives, motors, cables etc. (Lubricate where needed.)		hu
FUEL S	YSTEM		
L.	Check all lines, hoses, clamps and fittings for security, signs of leaks, chafing.		
2.	Check fuel selector for operation, leakage.	7	
3•	Check condition of fuel gages, markings.	5	2h
4.	Check tanks externally for signs of leaks.	5	2h
5•	Check cross-feed, engine shutoff valves for operation, leaks.	5	a da
LANDIN	G GEAR		
1.	Check struts, retract mechanism, gear doors, counterbalances for condition, damage.	J n	4
2.	Lubricate all gear fittings.	Fa	h
3•	Service gear box (SAE 90 lube.)	100	h
Ļ.	Check tail gear retract cables, chains, safetys in rear baggage compartment, grease all fitting (Remove center floor board and tunnel cover on aft bulkhead.)	s.	Ch
5.	Check hand crank and lever for condition, markings, view windows, condition, cleanliness.		. Ka
6.	Check landing gear warning light, operation with throttles.		
7.	Check tires for condition, inflation (45% main, 55% tail.)	Vari	Take
8.	Pull all wheels, clean and check bearings, races, retainers. Grease and reinstall.	Vani	



ITEM	ITEM	MECH	INSP.
LANDII	NG GEAR (Cont.)		
9•	Check brakes for lining condition (remove glaze and blow out), freedom of pistions and all moving parts; Paralketone where needed.	Vaneri	- Wh
10.	Check tail gear centering springs and tail gear lock for condition, freedom.	Vari	To the
11.	Perform retraction.	Vasai	Si de
WINGS	AND CENTER SECTION	Vani	
1.	Check for cracks, loose rivets, corrosion, dents, etc., upper and lower surfaces.	Vari	To me ha
2.	Check for loose or missing screws in inspection plates, gap strips, outer panel to C/S plates.	Van	Tombe
3.	Check all drain holes for freedom from obstructi	on Varance	5
14.	Check position, landing lights for operation, lenses, rust or corrosion, pilot mast, heater.	Vami	FA
AILER	ONS AND FLAPS		
1.	Check fabric and stitching for condition.	Vom	
2.	Check aileron and flap hinges bearings, hard- ware; for freedom of operation, excessive play rust, corrosion, security.	Vari	
3.	Check all bondings.	1/2000	
4.	Check all drain holes for freedom from obstruction.	Vann	
5•	Check aileron push-pull rods, rod end bearings bellcranks, hardward, for condition, excessive play, rust, corrosion.	Vari	
6.	Check flap cylinders, bearings, hardware, lines return spring assembly and roller for condition corrosion, rust.	Var	5

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GRUMMAN G21A "GOOSE" AIRFRAME 100 HOUR INSPECTION

Page 5.

TUEM		rag	e 5 •
NO	ITEM	MECH	INSP.
STABI	LIZERS AND VERTICAL FINS - TAIL SURFACES		
1.	Check stabilizers and vertical fins for damage, loose rivets, corresion, etc.	Vancor	
2.	Check failings for security, corrosion.	Vame	
3.	Check all drain holes for freedom from obstruction.	Vani	
L ₁ .	Remove fairing both sides horizontal stabil- izers and check attachment fittings for cracks defects, hardward, rust or corrosion.	Varia	
5.	Remove fairings upper and lower ends of horizontal stabilizer struts & check for condition of fork ends, hardware, cracks, rust or corrosion, security.	Variani	
6.	Check elevator and rudder hinges for condit- ion, excessive play, hardware, bondings, rust or corrosion.	Varia	
7•	Check fabric and stitching, pain, for Condition.	Vari	
8.	Open inspection plate rear bulkhead, check interior, tail compartment, corrosion; cables, push-pull rods, bearing s, bellcranks, bondings, etc., bellcrank bracket for rust. Lubricate where needed.	Vani	
9•	Open up tab motor inspection plates, rudder and elevators and check for condition of tach drive, conduit, motor, hardware, rust or corrosion. Lubricate.	Vasari	
10.	Check elevator and rudder tabs for condition, free play, hinges, hardward, etc. Lubricate.	Varon	
11.	Check operation, mounting, condition or rotating beacon and tail light, corrosion, lens	os etc	'ARA
FUSEL			
1.	Skin for condition, donts, cracks, corrosion, hull and stop areas.	Vani	
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	GRUMMAN G21A "GOOSE" AIRFRAME 100 HOUR INSPECTION	Page 6		
ITEM NO	ITEM	MECH	INSP.	
FUSELA	GE (Cont.)	112011		
2.	Remove all bilge plugs, check for water, obstructions, corrosion.	Vari		
3.	Check paint, trim for condition.	Vani		
4.	Open all quick opening inspection plates.	Var	;	
MISCEL	LANEOUS			
1.	Check batteries, jars and vent-drain lines, corrosion and wiring in battery compartment. (Add soda to bottle or jar if needed.)	Vari		
2.	Check all antennae, condition, security.	Van		
3.	Check external vents and openings for condition corrosion, etc.	Vami	:	
<u>L</u> _{1.•}	Close and check security of all inspection plates.		:	
5.	Lubricate all hinges, tabs, hatches, doors, locks, etc., after aircraft has been washed.	Vanui		
6.	Check all cockpit lights, switches, electrical instruments, fuse boxes, circuit breaker panels.	Van	-	

INSPECTOR

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ANTILLES AIR BOATS, INC.

GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

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	N. ASSAS ENGINE T.T. 19013	POSITI	ION Left
	DATE 18-12-67	SERIAL NO	- 13460
Item Numb		Mech.	Insp.
ENGI	NES		
1.	Remove all cowling.	Vancer	Flack
2.	Remove front plugs and check compression.		
	1. 94/160 6. 95/100		
	2.80/800 7. 90/800		
	3. 52/100 8. 52/100		
	4. <u>9 0/10</u> 0 9. <u>80/10</u> 0		
٠	5.82/10	Vanier	166
3.	Change all plugs.	Vani	V Face
4.	Remove, check, clean and replace main oil screen. Resafety.	Vanuer	V
5.	Drain and check main and rocker sumps. Resafety.	Von	
6.	Remove carburetor screen and drain plug on bottom of carburetor, check, clean, replace and resafety		
7.	Check magneto points for condition (point opening grease, etc.).		
8.	Check engine mount, Lord mount bushings and mount bolts. Clean up rust areas and chromate.	Vanur	V5=
9.	Check cylinders for broken fins, condition of		

baffles, security of base nuts, rocker covers, axle nuts, cowl support brackets. Check for oil

leaks and broken primer lines.

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GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

Page 2.

			Page 2.
Item Number	Item	Mech.	Insp.
ENGINE	S (Cont.)		
10.	Check intake pipes for cracks, condition, security and signs of leakage.	Vanioni	
11.	Check exhaust system for security, condition, leaks and cracks. Check tightness of exhaust clamps.	Vanui	
12.	Check ignition harness for condition and security. Open up lower leads, check for water and blow out.	Vaneur	Jun hu
13.	Check firewall for condition, check fittings, lines and electrical connections on firewall for condition and security.	Vaoruni	
14.	Drain oil tank, check mounting, signs of leaks. Close and resafety. Drain oil cooler-resafety.	Vani	
15.	Check lines and fittings in accessory section for security and condition. Flush oil separator and lines.	Vani	
16.	Check carburetor heat system for condition, including doors and linkage.	Vani	F
	Check all accessories for condition and security, leakage at base mountings.	Vanne	
ı	Check propellers for oil leaks, nicks, erosion, dents and scratches. Dress blades and grease where necessary.	Vanu	
19.	Check all engine controls for freedom, rigging, free play and full travel - safetys.	Van	12h
	Check fuel system under pressure for leaks, including primer lines, fittings, strainers, carburetor, etc.	Varia	P.L

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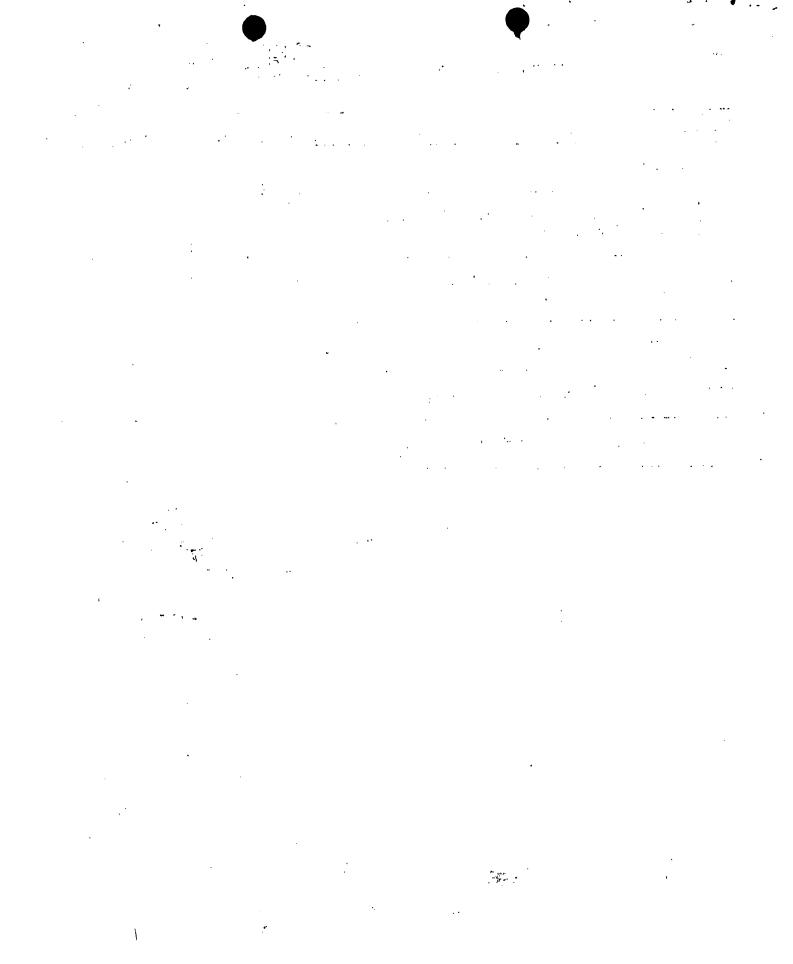
GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

Page 3

Item Number	Item	Mech.	Insp.
ENGINE	S (Cont.)		
21.	Wash engine and cowling. (Check for cracks, corrosion, etc.)	Vanni	July 1
22.	Lube engine controls including accelerator pump after wash-down.	Vani	
23.	Service oil tank.	Varni	
24.	Paralketone engine after run-up.	Vanni	2
25.	Install cowling - safety.	Vani	2

INSPECTOR

N. J. Gerth IA# 1496292



ANTILLES AIR BOATS, INC.

GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

	<i>§ 5777 A</i> N. 3 57,84	ENGI
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DATE 18-12-67

SERIALNO - 201.243

Item Number	r Item	Mech.	Insp.
ENGIN	<u>ES</u>		
1.	Remove all cowling.	Vanus	
2.	Remove front plugs and check compression.		
	1. 85/100 6. 90/100		
	2.88/100 7.94/100		
	3. 90/100 8.80/160		
	4. 8/4/800 9.82/100		
	5. 95/100	Vanuer	
3.	Change all plugs.	Vanus	3
4.	Remove, check, clean and replace main oil screen. Resafety.	Vanni	
5.	Drain and check main and rocker sumps. Resafety.	Vanni	92
6.	Remove carburetor screen and drain plug on bottom of carburetor, check, clean, replace and resafety.	Vami	
7.	Check magneto points for condition (point opening, grease, etc.).	Vamais	File
8.	Check engine mount, Lord mount bushings and mount bolts. Clean up rust areas and chromate.	Vanuer	Find
9.	Check cylinders for broken fins, condition of baffles, security of base nuts, rocker covers, axle nuts, cowl support brackets. Check for oil leaks and broken primer lines.	Varmi	The

GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

Page 2.

Item Numbe:	r Item	Mech.	Insp.
ENGIN	ES (Cont.)		
10.	Check intake pipes for cracks, condition, security and signs of leakage.	Vanue	ink.
11.	Check exhaust system for security, condition, leaks and cracks. Check tightness of exhaust clamps.	Vane	
12.	Check ignition harness for condition and security. Open up lower leads, check for water and blow out.	Van	
13.	Check firewall for condition, check fittings, lines and electrical connections on firewall for condition and security.	Vanui	
14.	Drain oil tank, check mounting, signs of leaks. Close and resafety. Drain oil cooler-resafety.	Vami	5
15.	Check lines and fittings in accessory section for security and condition. Flush oil separator and lines.	Vami	
16.	Check carburetor heat system for condition, including doors and linkage.	Vanni	-34
17.	Check all accessories for condition and security, leakage at base mountings.	Vami	
18.	Check propellers for oil leaks, nicks, erosion, dents and scratches. Dress blades and grease where necessary.	Vanui	2 mln
19.	Check all engine controls for freedom, rigging, free play and full travel - safetys.	Vani	The state of the s
20.	Check fuel system under pressure for leaks, including primer lines, fittings, strainers, carburetor, etc.	Vanni	Talk

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. . .

GRUMMAN G21A "GOOSE" ENGINE 100 HOUR INSPECTION

Page 3

Item Number	Item	Mech.	Insp.
ENGINE	S (Cont.)	Vanui	
21.	Wash engine and cowling. (Check for cracks, corrosion, etc.)	Vanuai	
22.	Lube engine controls including accelerator pump after wash-down.	Vama	
23.	Service oil tank.	Vani	
24.	Paralketone engine after run-up.	Vanui	
25.	Install cowling - safety.	Vanim	

INSPECTOR

10.9. Crental IA#14 96292

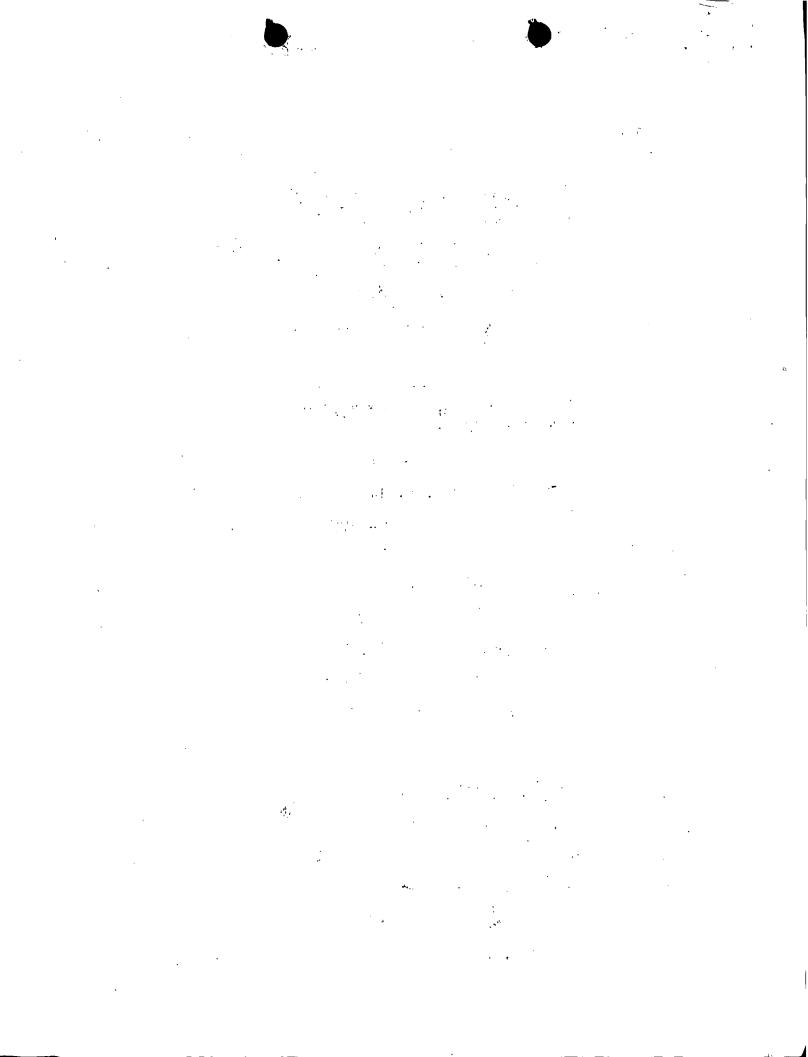
•• . .

AIRPLANE EQUIPMENT LIST

THIS EQUIPMENT LIST IS APPLICABLE TO AIRPLANE

SERIAL.NO. 1152

N-8777A



СНЕСК	ITEM NO.	ITEM	WEIGHT LB	ARM
i		PROPELLERS AND PROPELLER ACCESSORIES (Except De-1cing Equipment)		
1 (8)	1 (a)	2 ea. Hartzell Full Feathering 3 bladed Props HC-B3Z3O-2E/10152-51	240	+36/
	(b)	2 ea. Spinner 836-16SPR	8	+36
	2	2 ea. Governor Assy's with Adapters		-12
		ENGINE AND ENGINE ACCESSORIES FUEL AND OIL SMSTEM		
4,	101	2 ea. Engine Ring Cowls	56	- 36
	102 (a)	2 ea. 0il Radiators AN 95-2-173	26	0
	1	2 ea. Tachometer Generators		-1 2
	103	2 ea. Starters Eclipse 400-17	77	-1 2
	2	36 ea. 706SR Spark Plugs		-34
	108	1 ea. Press.Fire Ext.(Lux.Type A1)	21	- 33
	3	4 ea. Bosch SB9R4-3 Magnetos		-12
	111 (1)	2 ea. P & W R985-AN-14B Engines	•	
	4	2 ea. NR9-C2 Carburetors		-1 2
		LANDING GEAR AND FLOATS		·
,. ·	106 (ъ)	2 ea. Main Wheel Brake Assy's 30 x 7 Type 111 Goodrich - Hayes Model 3070A Wheel Assy. G-3-56A Brake Assy. H-2-102		4.
	1	2 ea. Hayes Brake Master Cylinders		
	2	2 ea. Main Wheel Tires and Tubes 32 x	8	
	305	1 ea. Tail Wheel Assy. 12.50 S.C.		

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CHECK	ITEM NO	ITEM		WEIGHT LB	ARM
		LANDING GEAR AND FLOATS (cont.)			
	3	1 ea. Tail Wheel Tire and Tube			
٠.	4.	2 ea. Main Landing Gear Shock St	ruts		
	5	1 ea. Tail Wheel Shock Strut	· · ·		
	301	2 ea. Wing Tip Floats (Grumman)			
			. ,		
		ELECTRICAL	•		
. •	104	1 ea. Generator Eclipse 346-NEA	2 '	26	- 23
·	204	2 ea. Batteries 12 Volt (38 amp.hr.Wisco 1240)		75	- 7
	1	1 ea. Set Navigation Lights			
	2	1 ea. Anchor Light Top Vert.Fin.	•		
	3	1 ea. Eclipse (Type 1111-43) Volta	-Reg.		
•	4	1 ea. Voltmeter			
	5	1 ea. Ampmeter			
	6	1 ea. Head Set			
	7	1 ea. Microphone			
, •				•	
		COCKPIT	÷	· .	
	1	1 ea. Engine			,
	2	1 ea. Standard Flight Instrument	Panel		
	3	1 ea. Cockpit Fire Bottle	٠.	•	
	- 4	1 ea. Engine Inst. Control Pane	I(ov/h	a)	~-
	5	1 ea. Pilots Seat with cushions &	& Belt		
	6	1 ea. Airline Windshield 3/8", 2	Ply	20	- 28

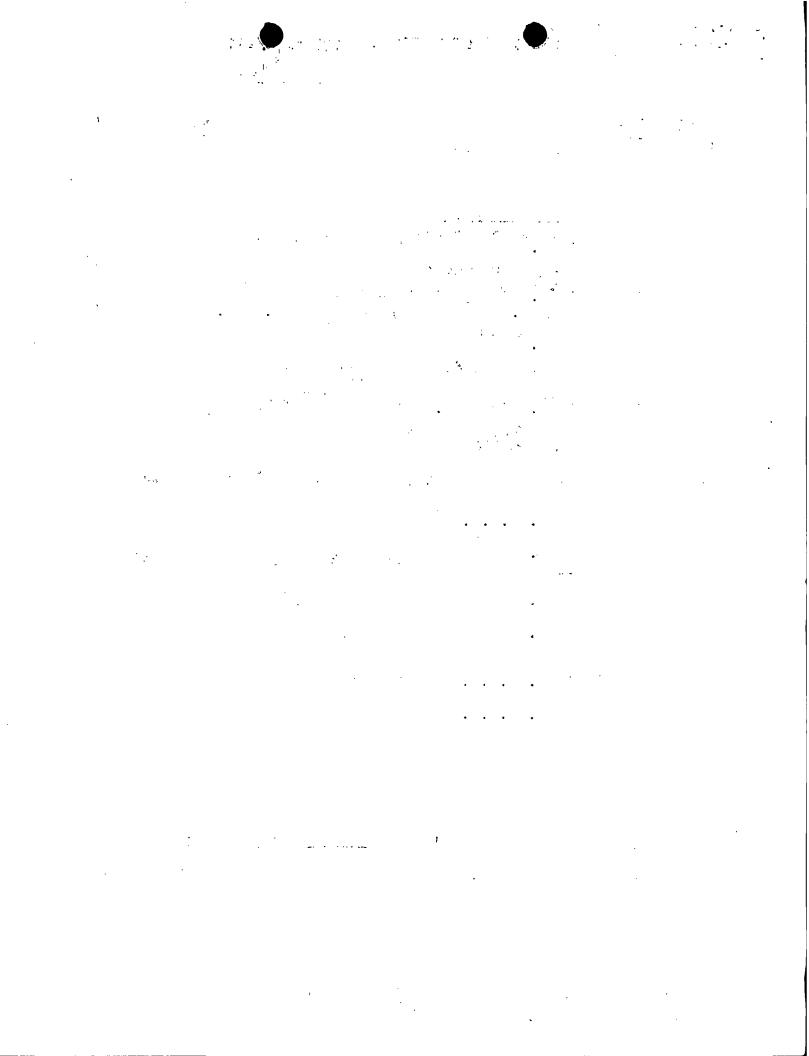
CHECK	ITEM NO	WEIGHT A LB			
		COCKPIT (cont.)			
ŧ	7	1 ea. Co-Pilots Seat with cushions and Belt			
	8	1 ea. Manually controlled Landing Gear Retract mechanism.			
٠.	9	2 ea. Fuel Sight Gages			
	10	2 ea. Fuel Sight Gage Shut off Valves			
	11	1 ea. Spare Fise & Bulb Box.	; · .*		
	12	2 ea. Engine Fuel Shut Off Valves.			
	13	2 ea. Air Vents with tubes			
	14	1 ea. Engine Cross Feed Valve			
•	15	1 ea. Fuel Selector Valve			
•	16	1 ea. Magneto Switch Type A-2 Scintilla	3 .		
	17	1 ea. Hand (auxiliary) Fuel Pump	;		
		CABIN			
•	1	1 ea. Escape Door Right Rear Side		•	
	2	Overhead Light Panel			
	3	1 ea. Air Vent			
	4	6 ea. Cabin Windows			
	5	Entire Cabin Liner Installed			
	6	Exit Step on floor aft Cabin			
	7	Entrance Ladder (Baggage Compartment)			
	8	2 ea. Leather Upholstered Chair (Reclining Type)	45	+39	
	9	1 ea. Leather Upholstered Chair (Reclining Type)	45	+77	

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EQUIPMEN' LIST AIRPLANE NO. N8777A N 1152 Page 4

CHECK	ITEM NO	ITEM	WEIGHT LB	AŖM
	,	CABIN (cont.)		
	10	1 ea. Leather Upholstered Chair (Reclining Type)	45	+110
	11	1 ea. Light Weight 4-Place Couch Dean H. Franklin Supplemental Tp.Cert.	60	+103
,	12	8 ea. Seatbelts at each Seatposition		
	13	1 Set Vynil Side Pannels		
	14	1 ea. Fire Ext. Baggage Compartment		
,	•			
	• •			
,	•	EXTERIOR		
	1	1 ea. A.D.F. Sense Antenna		
	2	2 ea. Tie Down Rings (one in each wing lower side)		
	3	1 ea. Mooring Cleat Nose of A/C		
	4	1 ea. Mooring Cleat at L/H side of Cockpit		
	5	1 ea. A.D.F. Loop Antenna		
	6	1 ea. V.H.F. Antenna	, •	
		-	al Mari	
		MISCELANOUS SEAPLANE EQUIPMENT	<i>;</i> *	
	217 (a)	Anchor and 100° of Manila Line 13/4"	19	- 88
	(p)	Bilge Pump, Boat Hook	7	- 50



CHECK	ITEM	ITEM	WEIGHT	ARM
	ΝO		LB	

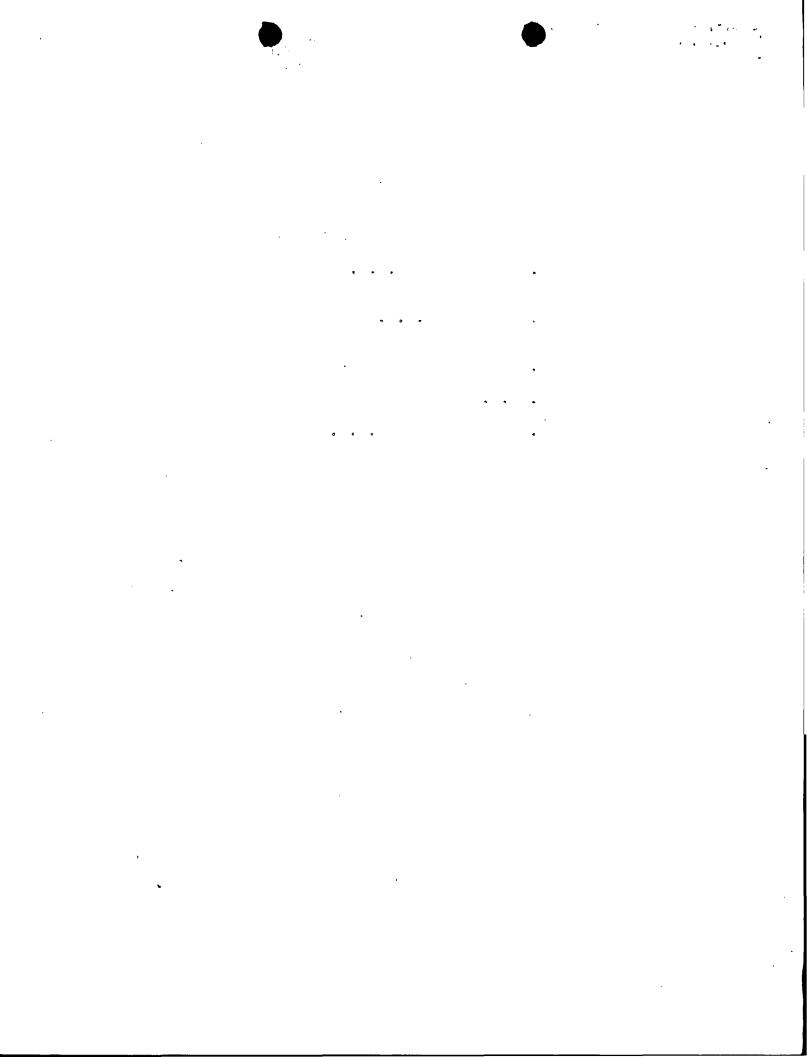
RADIO EQUIPMENT (See EXTERIOR SECTION for Antennas)

- 1 1 ea. Transmitter V.H.F. 17L-8A-265 Collins
- 2 1 ea. Receiver V.H.F. 51 x 3-3-1978 Collins
- 3 1 ea. Power Supply 427 B-2 Collins
- 4 1 ea. H.F. Transceiver T10D Sun Air
- 5 1 ea. Radio Compass A.D.F. 21AR3OA ARC

This Equipment List completed January 11, 1968

Inspection Authorization No.1496292

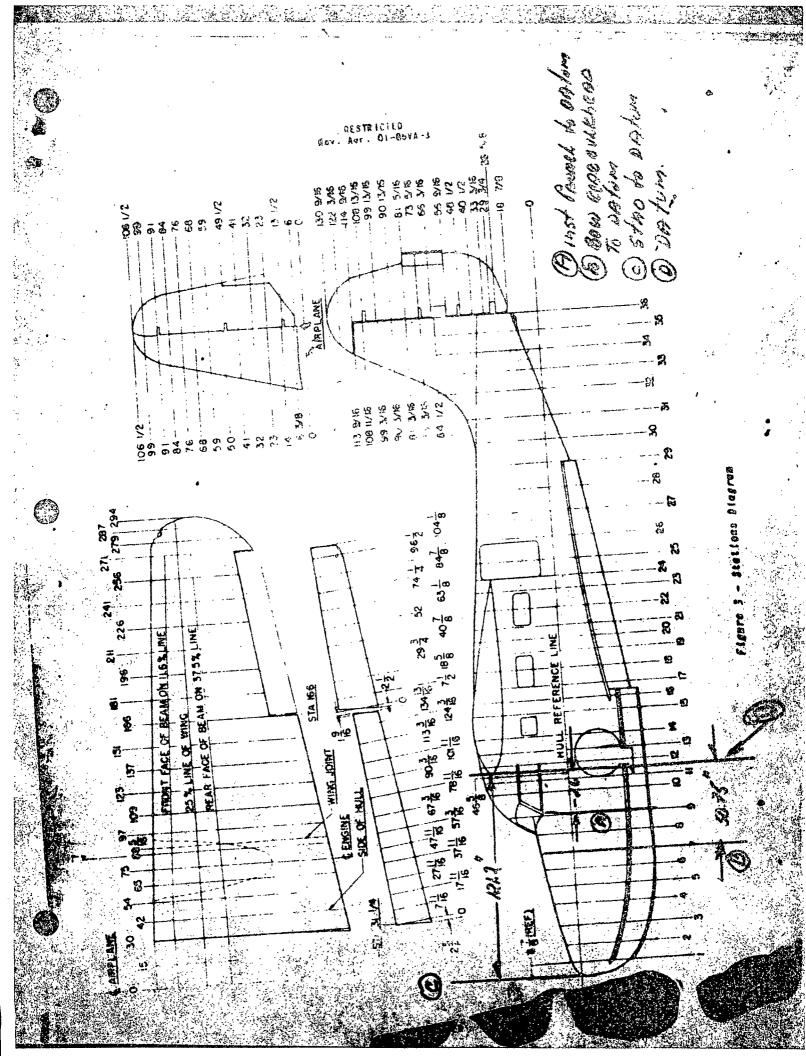
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Loading Chart instructions

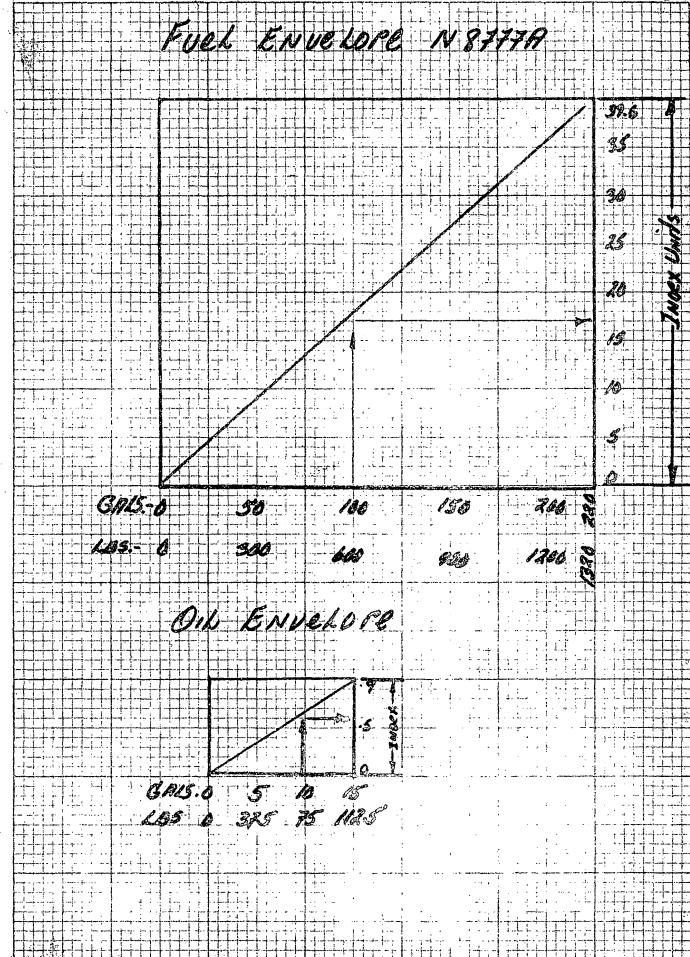
- 1) to the empty weight of the airplane add all the weights to be put on the a/c.
- 2) Add all the index units to the airplane index
- 3) Index units = moments
- 4) A/c index = Empty Wt times E.W.C.G.
- 5) Total number of index unuts must fall within the center of gravity envelope.
- 6) to determine the index units for fuel oil and baggage use loading chart provided.
- 7) index units are provided for each passenger location, and units as load presents itself. Observe all loading limitations can fuel, oil, and baggage if any.

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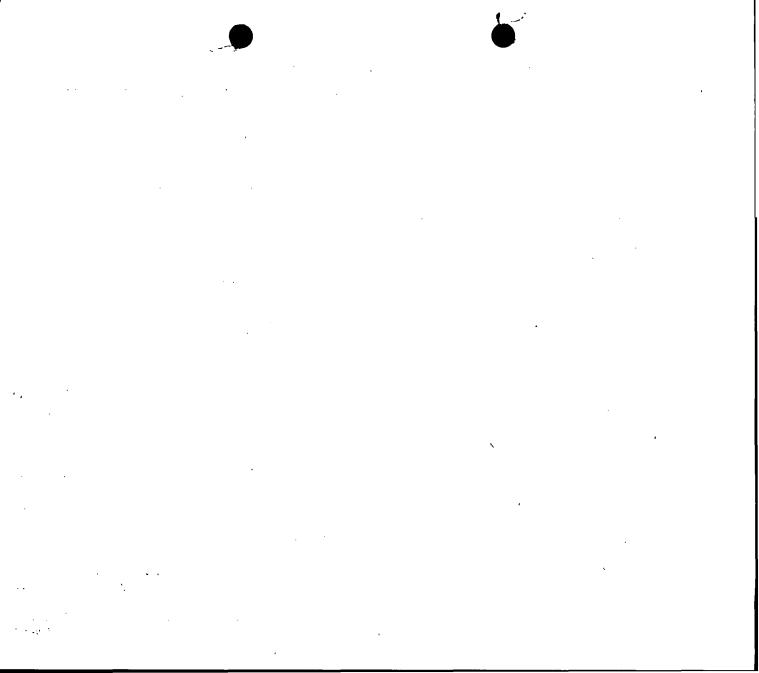


FEDERAL AVIATION AGENCY



CANCELLATION RECORD OF AIRCRAFT REGISTRATION NUMBER

CANCELLATION RECORD OF AF	RENAL I REGISTRATION NUMBER
LAST REGISTERED OWNER	REGISTRATION NO.
Lerge & Laignelot	N-606F
THE ABOVE REGISTRATION NUMBER IS TO BE CANCELLED FOR THE	HE REASON CHECKED BELOW:
ACCIDENT	
HEXPORTED TO: Johiti	EVENET SERVICIANE NO E
EXPORTED TO:	EXPORT CERTIFICATE NO. E-
PERMANENTLY RETIRED FROM SERVICE	
DISMANTLED OR SALVAGED	
AT OWNER'S REQUEST	
OTHER (Explain)	•
,	
mylood	DATE 10-1-63
91	
THE ABOVE REGISTRATION NUMBER HAS BEEN CANCELLED ON OF	FFICE RECORDS.
BY <u>12+</u>	10.07 / 2
ву Д	DATE 10-7-63



The United States of America Federal Aviation Agency

Washington, D.C.

N-606F No. B-53808

Export Certificate of Airworthiness

Thi	8 CETTIFIES Shalshe	product identified.	below.and.n	rore particul	, vrby desoribed x	in Specification (s) ¹ o
the Federa	al Aviation Agenc	zy, Numbered 🛭 6:	54; 5E-1;	914		
hasi been .	examined and a	of the date of the	ris certificati	z, is .consider	ed .airworthy .	in accordance with a
.comprehe	nsive and detailed	'airworthiness code	r of the Unit	- ted States Gov	vernment, and	b is in compliance will
those spec	cia <i>l requirements</i>	of the importing	.country fi	led with the	United State	es Government, excep
as motedil	below. This certif	lica <i>te in mo w</i> ay ai	ttests/lo.comj	rliancewith	amy agreemen	rts or contracts between
thevendo	r and purchaser, n	or does it constitut	te authority.	to operate an	aircraft.	
Product.	Aircraft					
Manufaci Model:	G21A	Aircraft Engine		ines: Prat	t & Whitney al Numbers	R985-14B 201243;13460
Leriub No. New □	. 1152 Newby Overhau	led 🗆	Pro	pellers: H	lartzell Mod	le1 HC-B3W30-2E/ W10152-5½
Used Airc	0					
Country l Exceptions	loxohich exported. r.	TAHITI Tahiti Tours Papeete, Tah	-			
	complied with All service by	have been check ulletins, lette ropellers have	ers and no	tes on spe	cs for airc	

Charles M. Carrier Signature of Authorized Representative

Federal Aviation Agency Agency Represented and Number

SO-GADO-5

Date

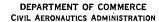
5-20-63

District Office or Designee Number

¹ For complete aircraft, list applicable specification or Type Certificate Data Sheet numbers for the aircraft, engine, and propeller. Applicable specifications or Type Certificate Data Sheet, if not attached to this export certificate, will have been forwarded to the appropriate governmental office of the importing country.

DKLAHOMA CITY, OKLA. E3. MA 70 8 BS VAM

ACENCY-AIRCRAFT
REGISTRATION BRAINS



Form approved. Budget Bureau No. 41-R042.7.

APPLICATION FOR CERTIFICATE OF AIRWORTHINESS FOR EXPORT

EXPORT CERTIFICATE NO. (To be filled in by CAA representative):

E-53808

INSTRUCTIONS

This application should be submitted (one copy only) to a representative of the CAA when the article² to be exported is presented for inspection and should be executed as follows:

A. Items 1, 2, 3, and 7 in connection with all exports, and

B. For Complete Aircraft, items 4A, C, D (excluding propeller

serial numbers), 5, and, when applicable, 6 and 8.

C. For Engines, items 4C and 8, and, when applicable, 6.

D. For Propellers, items 4D and 8.

E. For Type Certificated Equipment (other than engines or propellers), items 4B, and, when applicable, 8.

				į Ponore),						
APPLICATION IS MA	ADE FOR A CERTIFICATE O	AIRWO	RTHINESS FOR	EXPORT TO COVER TH	E PROD	UCT(S) DESCR	IBED BEL	OW, WHI	CH IS:	
☐ NEW	T USED MILITA	ARY SURPL	.us 🔲 DI	ELEGATION OPTION						
1. NAME AND ADDRES	SS OF EXPORTER				.,	,				
		Ser	ge J $_ullet$ L	aignelot						
		205	O Newco	mb Street						
		Den	ver 15,	Colorado						•
2. NAME AND ADDRES	SS OF FOREIGN PURCHASER			•			· · ·	3COUNTE	Y OF DES	TINATION
			iti Tou					•		
	,,	Pap	eete, T	ahit i				Tahi	ti	
•	~ ⁺	્ં		•			1			
4. DESCRIPTION OF	F PRODUCT(S)									
TINU	MAKE AND N	ODEL		SERIAL NO.		IDENTIFICAT	ION NO.	т. с	. NO.	P. C. NO.
A. COMPLETE								. ,		
AIRCRAFT	Grumman G21	∆ .		1152		N6061	r	654	!	
• .				TYPE OF EQUIPM	FNT	i i		1		
	,			(Such as float, ski,	tc.)	QUANT	. FLA			
B. EQUIPMENT	•									
C. ENGINE(S)		-						<u> </u>	. (77.
C. LIGHTL(3)			·				"		T	
,	MANUFACTURER			MODEL		T. C. NO.	P: C	. NO.	 	SERIAL NO.
(1) Pratt &	Whitney Air	c r af	t R98	5-14B	Ι,	5E -1		•	201	243
170000	<u> </u>	<u> </u>							7	•
Pratt &	Whitney Airc	raft	R98	5 -1 4B		5E -1			134	60
(3)	4									
							-		+	
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(5)										•
(6)										<u>_</u> _
					L_		L			
D. PROPELLER(S)							,		1	
	MANUFACTURER			MODEL		T. C. NO.	P. C	NO.		SERIAL NO.3
(1)										
'' Hartze	211		HC-B3W	30 - 2E/		914			<u> </u>	······
			W101	52-5∄			1			
Hartze	211			~		914				
(3)							3.758			
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(4)					1	, - -				
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(5)	-					10.0],,			
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(6)	•									
¹ See CAR 1.1(4).			·	· · · · · · · · · · · · · · · · · · ·		, .	٠,٠		<u> </u>	<u>.</u> .
Only complete ty	pe certificated aircraft, aircraft not required with respect to pr	engines, pr	opellers, wheels,	floats, skis, position lights,	and land	ling flåres are elig	dble for a c	ertificate	of airworth	duess for export.
- pertar mannocis ii	or reduted aint tespect to bi	openers if	iovanica ili bileces	to being exported.		<u>. </u>				

5. FLIGHT TEST (AN AIRCRAFT SHALL BE FACTOR TO TESTED NOT EXCEEDING 60 DAYS PRIOR TO INSPECTION FOR EXPORT AND THE FOLLOWING ENTRIES WITH RESPECT THERETO SHALL BE MADE)											
DATE OF FLIGHT TEST DURING THIS TEST DID THE CONTROLS, POWER PLANT, AND INSTRUMENTS FUNCTION SATISFACTORILY											
5/20/63 XX YES No (Explain in "Remarks")											
6. INDICATE BELOW, THE OPERATING HISTORY OF USED AIRCRAFT AND AIRCRAFT ENGINES BEING EXPORTED											
UNITS AS LISTE	UNITS AS LISTED IN ITEMS 4A AND C MANUFACTURED MODIFIED OVERHAULED TOTAL SINCE OVERHAUL										
TILMO 4A ARE		MANUFACTURED	MODIFIED	OVERHAULED	TOTAL	SINCE OVERHAUL					
COMPLETE AIRC	RAFT	October 1942		May 15, 1963	3873:25	00:00					
	а.										
	b.		•								
	c.	- · · · · · · · · · · · · · · · · · · ·		•		,					
ENGINES											
	d.	Pratt & Whitn	ıe y	 April 4. 1963		00:00					
		Prott & Whitn	10 11	Apr (1 + 1900		100.00					
	`e.	201243		March 27, 196	3	00:00					
	f.										
7 DOES THE LINE	(C) FOR	WHOLE A CENTIFICATE OF LAND	WOOTHWESE FOR FYROR	LC DECUECTED COMPLY WITH	<u> </u>	<u> </u>					
			1	IS REQUESTED COMPLY WITH							
OTHER REQUIR	EMENTS	REGULATIONS, AIRWORTHINES OF THE CAA	SS DIRECTIVES, AND B.	APPLICABLE SPECIAL REQUIRE	MENTS OF THE COUP	TRY OF DESTINATION					
XX YES	□ NO (E	Explain in "Remarks")		YES NO (Ex	plain in "Remarks")						
		RAPID CORROSION HAVE BEEN		YES NO DATE							
9. REMARKS:											
	ied	ıni th		63-9 and have							
engin	es a	nd propellers requirements comp	have been co	mplied with.		• • • •					
All .pe	rts s	susceptible to-ra	pid corresion	will be treated wi	ith corrosio	n iden					
prever	tativ	re compund when 1	oaded aboard sl	nip at point of en	mbarkation.	-					
		••	c. 1 ^{eg} — manage	•		•					
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that the above	statem	on his own behalf or havents are true and that the "Remarks" above.	ving been duly author ne unit(s) described he	ized by the exporter or perein is (are) airworthy an	ourchaser describ	ed herein, certifies for safe operation,					
			10.	1 ml							
سر	. . .	Glerge	J. Jaggnel	at -	<i>'</i> 2	- ,					
3-/4-	65	By ' Year	dry 1/ Defance	120 m	(Curier						
(DATE)		(SIGNATURE OF APPLICANT OF	R AUTHORIZED REPRESENTATIV		(TITL	E)					
It has been product(s) des required for a	n deter cribed l similar	mined trampe data give herein, are true and com- product certificated as, c	APPROV en in items 5, 7, 8, an ect, and that the pro or histaged on, a civil	AL d 9 above, insofar as the duct(s) is (are) in a state aircraft of U. S. registry.	y relate to the ai of airworthiness	rworthiness of the equivalent to that					
NAME AND ADDRESS Federal A	of the ap Aviati	on Agenty 10 Pc0.	Box 59-2014 AMI	F, Miami, Florida	DAT	5-20-63					
THE AND SIGNATURE OF A SCENT OF AGENT HET SELECTIVE DESIGNEE OR REPAIR STATION NO.											
Charles M General Ma		- 4 7 1 / 0 3 / 1 / 1 / 1	397 (31		SO-GADO-5						

FEDERAL AVIATION AGENCY

Form approved. Budget Bureau No. 04-R060.

MAJOR REPAIR	AND ALTERATION	FORM	(AIRFRAME.	POWERPLANT.	PROPELLER C	IR APPLIANCE)

MAJU	K KEP	AIK AN	U ALIEKAIII	UN FUKI	M (AIKF	KAME, P	UWEKPI	LANI, PRUPI	LLLEK	JK APP	LIANGE)
1. AIRCRAFT	MAKE			7	MODEL			RIAL NO.			D REGISTRATION MARK
		Grumm				0 21A		1152		N606F	
2. OWNER		First, middle	·	IATIO	INC.		3923	N.W. 24 AMI 42,	th St	; .	
3. COMPLET	TE ONL	Y FOR	UNIT REPAIRI . AERONAUTIC	ED AND/C	OR ALTE	RED. DES	CRIBE W	ORK ACCOME	LISHED	ON RE	VERSE IN AC-
				,			<u> </u>			NATURE OF	WORK (Check)
UNIT			MAKE .		MODEL			SERIAL NO.	MAJO	R REPAIR	MAJOR ALTERATION
a. AIRFRAME		******	••••••	♠ (As descr	ibed in Iten	n I above) 🙌		·····	1		
b. POWERPLAN	T PI	RATT	& WHITNEY	. R9	85-AN	14B	1	.3460		x	
c. PROPELLER				ţ				·			
		TYPE AND	MANUFACTURER			,					
d. APPLIANCE				+	•					•	
*AFT	ER the r		D BALANCE DA or alterations are made.	case	of a spar	e compone	nt, it will	repair or alters not be comple e, it will be con	eted unti	l such co	lowever, in the emponent is installing agency,
CATEGOR	Y		EMPTY WEIGHT (Po	unde)*		EMPTY CENT	ER OF GRAVI	TY (Inches from data	ım)*	USEF	UL LOAD (Pounds)*
				Supe	rseded	5/20/6	33				
5. CONFOR	MITY S	STATEME	ENT (Complete and	check)							
a. AGENCY'S NA	ME AND A	DDRESS			ь.	KIND OF AGENC	:Y		c.	CERTIFICAT	
SE P.	BRIN O.B	ox 63	DEPOT, I R TERMINA L LORIDA		0	Certificat Manufact (0	Certificate ted Repair turer. Check if	d Mechanic. Station. repair or alters ander delegation	C	OWER LASS LIMITI	610 PLANT 1 & 2 ED ESSORY
attachment the inform	nts herenation i	eto have furnished		on made to cordance and correct	with the to the b	requiremen est of my k	ts of Part nowledge.	item 3 above 18 of the U. S	Civil A	ir Regula	the reverse or ations and that Inspector
Pursuant	to the	authority	N TO SERVICE specified below tion Agency and	the unit				cted in the ma	nner pres	scribed b	y the Adminis-
∏ RE	PROVE	D } BY	FAA Desig	nee 🔲 I	Manufacti Repair Sta		Canadia Other (S	-	of Transp		ector of Aircraft
		4, 19		orge 1	W	nont (Signs	ature of author	offzed individual; ti	tle or ident	ilef	Inspector mber)
7. TO BE CO	OMPLE	TED ON	LY BY FAA PE			" " (60 C CO)		,	· •		
	ded for	engineer	ing comment					Spot Cl	hecked		(Date)
SO	GA	DO 5				han	las 1	M Ba	mes		
		gnation nun	nber)		~	401	(Sig	nature Flight Stand	lards Inspec	toiSO	GADO 5

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.

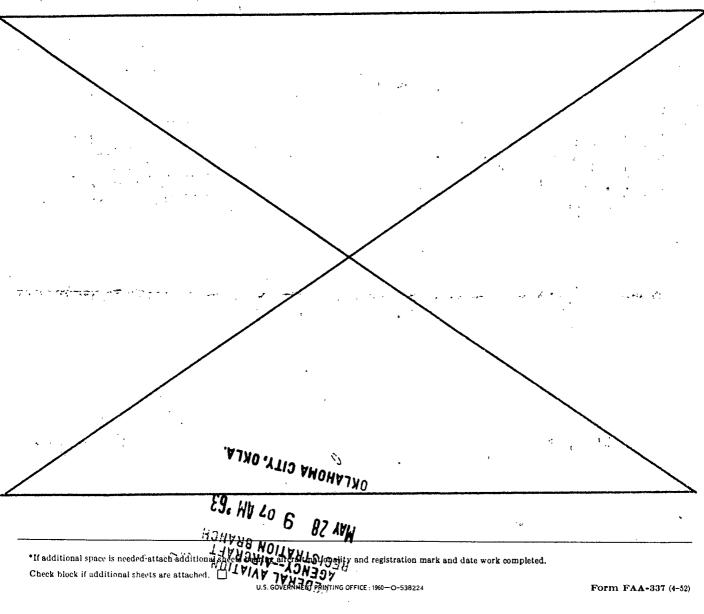
8. DESCRIPTION OF WORK ACCOMPLISHED.

Engine received this station for overhaul. Engine given receiving inspection, completely disassembled and all parts cleaned. All steel parts magnafluxed. All parts inspected in accordance with manufacturer's specifications and replaced where necessary. Engine, magnetoes and harness completely overhauled. Test house run of engine satisfactory. Time since overhaul 00:00.hours. **SELECTION**

FAA A.D. Note 57-5-4 has been complied with, work accomplished prior to receiving here.

FAA A.D. Note 62-11-5 complied with.

P&W Service Bulletin 1693 (Drain Pipes- Cyl. Inter-Ear) complied with.



FEDERAL AVIATION AGENCY

MAJOI	R REPAIR AND	ALTERATION FOR	M (AIRFRAME	POWERPLANT,	PROPELLER O	R APPLIANCE
	MAKE		MODEL	SERIAL NO	NATION	ALITY AND REGISTRATIO

1. AIRCRAFT	MAKE			MODEL		SERIAL NO.	NATIO	NALITY AN	D REGISTRATION AND
1. AIRCRAFT		Grumman		G 21A		(Street and Rumber, city, zon	1	16 6 617	·······
2. OWNER		First, middle, last) N FRANKLIN AV ENTERPRISI		<i>,</i>	39	23 N.W. 24th MIAMI 42, FL	St.		
3. COMPLET CORDANG	CE WIT	Y FOR UNIT REPAIR TH CIVIL AERONAUTIC	ED AND/OR S MANUAL	ALTERED. DE	SCRIB	E WORK ACCOMPLI	SHED (ON REV	VERSE IN AC-
UNIT		MAKE	•	MODEL		SERIAL NO.	N	ATURE OF	WORK (Check)
	-	7	L				MAJOR	REPAIR	MAJOR ALTERATION
a. AIRFRAME		**************************************	♦ (As describe	ed in item I above) 🛭	*****		ı		
b. POWERPLAN	PR	ATT & WHITNEY	R985	-AN14B		201243		x	
c. PROPELLER									
	ļ	TYPE AND MANUFACTURER				•			•
d. APPLIANCE		· · · · · · · · · · · · · · · · · · ·		in fig					All sair lash hamer t
*AFT.	ER the r	GHT AND BALANCE DA epairs und/or alterations d below were made.	case of	f a spare compon	ent, it	by repair or alteration will not be completed time, it will be completed	d until	such co	owever, in the mponent is in- italling agency,
CATEGORY	1	EMPTY WEIGHT (Po	unds)*	EMPTY CEN	ITER OF	SRAVITY (Inches from datum)	•	USEFU	IL LOAD (Pounds)*
			Supersed	ded 5/20/63					
5. CONFOR	MITY S	STATEMENT (Complete and		7,20,07				L	
a. AGENCY'S NA				b. KIND OF AGE	ICY		e. C	ERTIFICATE	E NO.
SEBRI P.O.1	ING . Box	IR DEPOT, INC. AIR TERMINAL 631 FLORIDA	•	Foreign Certifics Manufa	Certificated Recturer. (Checkwas ma	ted Mechanic. cated Mechanic. epair Station. if repair or alteration de under delegation op- poedures.)	on C	Lass Imiti	PLANT 1 & 2
attachment the inform	nts here nation i	e repair and/or alteration to have been made in action is true a	ccordance wi	ith tha requireme	nts of 1	Part 18 of the U. S. C	ivil Air	Regula	tions and that
Marci (Date rep	n 27 pair and/o	1963 or alteration completed) Geo	orge W.	Dumont Dumont	. <u>~</u>	(Signature of authorized in	Chio dividual)		nspector
Pursuant	to the	RETURN TO SERVICE authority specified below eral Aviation Agency an	the unit ide			nspected in the manne	er presc	ribed b	y the Adminis-
X AP	PROVE	D BY { FAA Design FAA Flight Standards Inspector	nee			adian Department of Ter (Specify)	Transpo	rt Inspe	ctor of Aircraft
Marc (Date	h 27	1963 val or rejection) Geo	orge W.	Dupont (Sign	nature of	authorized individual; title of	Chie	f In	spector
7. TO BE CO	OMPLE	TED ONLY BY FAA PE							
a. Forward		engineering comment (Date)	☐ See Reinspecte	attached memora		Spot Chec	ked	(Date)
\$0	GF	MO 5		Co	ha	nlo M C	ea	my	7
(I	AA desi	gnation number)				(Signature Flight Standard	s Inspecto		GADO 5

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.

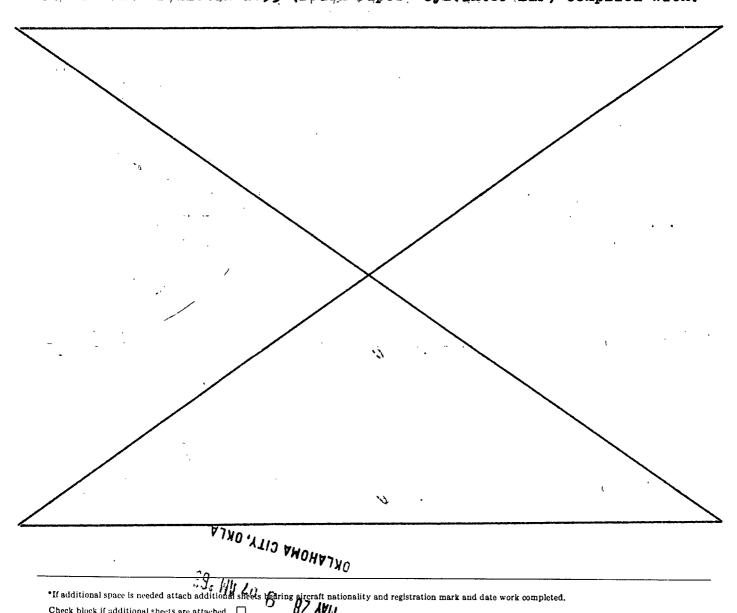
8. DESCRIPTION OF WORK ACCOMPLISHED.

"If additional space is needed attach addi

Check block if additional sheets are attach

Engine received this station for overhaul. Engine given receiving inspection, completely disassembled and all parts cleaned. steel parts magnafluxed. All parts inspected in accordance with manufacturer's specifications and replaced where necessary. Engine, magnetoes and harness completely overhauled. Test house run of engine satisfactory. Time since overhaul 00:00 hours.

FAA A.D. Note 57-5-4 has been complied with, prior to receiving here. FAA A.D. Note 62-11-5 complied with. P&W Service Bulletin 1693 (Drain Pipes-Cyl.Inter-Ear) complied with.



. GOVERNMENT PRINTING OFFICE: 1960—O-538224

Form FAA-337 (4-52)

FEDERAL AVIATION AGENCY

Form approved, Budget Bureau No. 04-R060.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

			(
1. AIRCRAFT	make <i>GRUMMAN</i>		MODEL G 21A		SERIAL NO. 1152			D REGISTRATION MARK
2. OWNER	NAME (First, middle, last) Serge J. Lat	gnelot		ADDRESS 200 De:	1152 5 (Street and number, city, zo 50 Newcomb S nuer 15, Col	ne and Sta tree orad	ie) 17£ t 0	CORDED
3. COMPLET CORDAN	TE ONLY FOR UNIT RE CE WITH CIVIL AERONA	PAIRED AND/O	OR ALTERED. DE	SCRIBI	E WORK ACCOMPLI	SHED (ON REV	VERSE IN AC-
UNIT	MAKE		MODEL	3.0	SERIAL NO.	N/ MAJOR		WORK (Check) MAJOR ALTERATION
a. AIRFRAME	***************************************	***** (As descri	ibed in item 1 above) (•	********	major	REFAIR	MAJOR ALTERATION
b. POWERPLAN	r	• • • • • • • • • • • • • • • • • • • •	6+ -	Vh	e data/ alteratio n identifice	herein c	omplies :	with the annicable
c. PROPELLER			•	de	worthiness requirements scribed alreadt, subject the thorized in CAR Part 18,	Cantarm	in cyca t	
	TYPE AND MANUFACTURE	ER '		. 1	12943 61	unly.	mI	amis
d. APPLIANCE	•		te: -	,	Date	'	CILI	Inspector
*AFT	T WEIGHT AND BALANC ER the repairs and/or alteration described below were made.	ons case stall	of a spare compor	ent, it	by repair or alteration will not be completed time, it will be comp	on agen d until s	cy. H such co the ins	owever, in the mponent is installing agency,
CATEGOR	Y EMPTY WEIG	HT (Pounds)*	EMPTY CE	NTER OF G	SRAVITY (Inches from datum)	•	USEFL	JL LOAD (Pounds)*
NORMAL	6215	•	143.	4 ((22.3)		17	<i>'85</i>
5. CONFOR	MITY STATEMENT (Comp	lete and check)						
a. AGENCY'S NA	ME AND ADDRESS		b. KIND OF AGE	NCY		c. C	ERTIFICATI	E NO.
	Adams .W. 24th Street Florida		Foreign Certific Manufa	Certificated Resolutions. (Checkwas ma	ed Mechanic. cated Mechanic. cpair Station. if repair or alteration de under delegation operation of	on	15103	3
attachmer	that the repair and/or all nts hereto have been made nation furnished herein is	e in accordance	with the requireme	ents of 1	Part 18 of the U.S.C	d descri	bed on Regula	the reverse or tions and that
(Date rep	25. 1963 pair and/or alteration completed)	•		059	(Signature of authorized in	ndividual)		
Pursuant	AL FOR RETURN TO SEF to the authority specified the Federal Aviation Agen	below the unit			nspected in the manne	er presc	ribed b	y the Adminis-
ÆÆ □ RE	PROVED BY GRAA Stand	ards	Manufacturer Repair Station		adian Department of Ter (Specify) INSPECT			
5/20 (Date	0/63 of approval or rejection)	-	(Sig	mature of	authorized individual; title	or identific	376 cation nu	mber)
7. TO BE C	OMPLETED ONLY BY FA	A PERSONNEL						
a. 🗌 Forwar b. 🙀 Accept	ded for engineering commed	ent Se	ee attached memora		Spot Chec	ked		Date)
sc	GADO 5		Gir	r. Link	w M Car	, rej		
(1	FAA designation number)	 -		- 47 // -	(Signature Flight Standard	s Inspecto	\mathfrak{P}^{C} , \mathfrak{J}	المناهلين المناه

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.

Removed Hamilton Standard 22-D-30 Propellers, installed Hartzell HC-B3W30 propellers as per STC SA1-52.

Removed Goodyear Disc Brakes and Wheels.

Installed Original Equipment Hayes Wheel and Brakes.

Installed Auxiliary Fuel System in Floats as per ACA337 dated 6/12/51 Approved by FAA Engineering #1-567,6/14/51 and the attached

drawing.		C_i^p , G .	Arm
Aircraft E.W. Ham Stand Props	6395 - 308	20.77 -52	13282 4 16016
Pump & Motor	- 67	-3 8	2546
Hartzell Props	+ 238	-52	12376
Wheel & Brakes	- 58	9.7	<i>563</i>
Aux. Fuel System	+ 15	<i>-</i> 5.	75
New E.W.	6215	22.3	138372
		*121.1 inc	thes to datum
	. •	143.4	, 1

OKLAHOMA CITY, OKL

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REGISTRATION BRAF

TVANCTURE at the state of the s *If additional space is needed attach additional sheets bearing

Superseded See 337 form dated 5/20/63 AIR INTERNATIONAL

AIRCRAFT WEIGHING FORM

Owner_	Dean Franklin	Aviation	Date Weighed	June 4, 1962
Address	3923 N.W. 24 St	. Miami, Florida	Place Weighed_	Air Incernational
Model	G-21-A	Reg. No. N 606F	Ser. No. 1152	

Weighing Point	Scale Reading	Tare or Correction	Net Weight	Arm (Inches)	Moment
Jack Left Main Wheel Foint	3,015	-5	3,010		>
Jack Right Main Wheel Point	3,095	~5	3,090		><
Sub-Total (Both Main)	6,110	-10	6,100	130.6	796,660.0
Tail Hoist Point	405	-5	400	310.4	124,160.0
Total (As Weighed)	6,515	-15	6,500		920,820.0

WEIGHING RECORD

Description	Net Weight	Ara	Moment	Index
Total (As Weighed)	6,500		920,820.0	><
Gals. 14 Gal Oil on Airplane #/Gal. 7.5	105	129.1	13,555.5	
Total of Items Weighed but not part of Basic Weight	-		-	
Total of Basic Items not in Airplane when Weighed	+		+	
Basic Airplane	6.395	141.87	907.264.5	

C.G. in Percent M.A.C. 16,49 C.G. in Inches from Ref. Datum 20.77
Remarks & Calculations A/C weighed in closed hangar Using Cox Electric Scales
Datum Sta 0 to Wing L/E at Fuselage 121,1" % MAC $\frac{5.7 - 20.77 \times 100}{97.4}$ 16.49% $\frac{97.4}{97.4}$ C/G Range ($\frac{7}{20.5}$) (15.2 % MAC) to ($\frac{7}{33.0}$) (28.0% MAC).

Weighed By

OKLAHOMA CITY, OKLA.

E9. NO 20 6 87 AW

FEDERAL AVIATION AGENCY--AIRCRAFT REGISTRATION BRANDER



INTERNATIONAL

P. O. BOX 48-808 BETTERMATIONAL AIRPLINE DEATE NO. 1 MAIN. R. D. F. OPIDA

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ì	Set Mavigation Lights		
i 6a.	Sailing Light Top Sudder		•
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2 44.	Wir Control Heads (Instrument Panel)		
i st.	W Control Head (Instrument Panel)		
. 88	VIF Becaiver (forward of last. Face.)		1
. 68.	Redic Dynamotor (Under Filate Seat)		
1 64.	ADF Becaiver R-30A (Under Co-Fileca Seat)		
L es.	Hier shi one		
i ea.	Headset		
1 64.	VIII Attoma	•	
	RF Antanna		
4 64.	ADT Autenne		
l &A.	Radio Rack Agt of Compartment		
COCKPIT			
i 44.	Standard Flight Instrument Facel		
i ca.	Engine Instrument & Concrel Panel (Gverbead)		

FORWARD COMPARIMENT

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i sa. Ssa Aschor

I sa. Regime CO2 Fire Extinguisher

Spare Fuse & Bulb Box

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Pilots Seat With Cushions & Seat Belts

Co-Pilota Seat With Cushions & Sant Balta Fire Extinguisher (Ridds Model 24 T2) (COI)

12 ea. Window Curtains 1 ea. First Aid Wit

l es. Fire Extinguisher (Kidde Liquid 1998) l es. Percable Ladder (At Hain Entrance Door)

l an. Recape Done (Kight Side)

2 ea. Overbead Lights 1 ea. F.A. Loud Speaker

LAVATORY COMPANIEST

l se. Overhead Light l ee. Radio Reck

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EQUIPMENT 1552 Compact

ALSCRAFT DATISATOR

lea. · hosting Cleat

les. The Bown Rings (Les. Wing)

lest kwitten Lights

I es. Sailing Light Top Rudden

Fatha Covering Entire A/C

1 ea. Pitot Tube R/H Wing

1.ec. Aux. Fuel System as per ACA SSV dated 6/14/52

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U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS

APPLICATION FOR AIRWORTHINESS CERTIFICATE | Please print or type. Submit this form to the

AND/OR ANNUAL INSPECTIO	N OF AN AIRCRAFT	Civil Aeronautics Field Representa	Administration Aviation Safety tive.
1. TYPE OF APPLICATION (Check which)			
a. ORIGINAL ISSUANCE OF CERTIFICATE D. ANNUAL INSPECTION FOR RENEWAL OF C. AMENDMENT OR MODIFICATION OF CUR	CERTIFICATE e	RECERTIFICATION UNDER TH	HE PROVISIONS OF CAR 8 HER THE PROVISIONS OF CAR 8
2. AIRWORTHINESS CLASSIFICATION It is requested that the Certificate of A worthiness classification(s): a. STANDARD (NORMAL, UTILITY, ACROBAT b. LIMITED (SEE CAR 9) c. RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation(AGRICULTURAL AND-PEST CONTR AERIAL ADVERTISING AERIAL SURVEYING GLIDER TOWING d. EXPERIMENTAL (Check the type of experimental operation(s) to RESEARCH AND DEVELOPMENT AMATEUR-BUILT DEMONSTRATION	Airworthiness be issued to IC, TRANSPORT CATEGORIES) (8) to be conducted) OL	permit operation of the CATROLLING . COREST AND WILDLIFE CONSIDERATHER CONTROL - CHER CACING CXHIBITION CTHER	
3. AIRCRAFT IDENTIFICATION (Complete		, unc	DATE CEDIAL NO.
a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	c. AIRC	RAFT SERIAL NO.
O	/ የሚገ ል	'	1159
Gruman	G21A		1152.
d. ENGINE MAKE		INE MODEL	1152.
		R-985-14B.	1152.
d. ENGINE MAKE	e. ENG	=	1152.
d. ENGINE MAKE Pratt & Whitney 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME	e. ENG	R-985-14B.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
d. ENGINE MAKE Pratt & Whitney 4. AIRCRAFT REGISTRATION INFORM	e. ENG	R-985-14B.	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Department 5. AIRCRAFT OWNER'S CERTIFICATIO I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM b. APPLICATION FOR REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, I	DN (Check and complete appropriatistered owner (or his agent Administration as required following evidence of registaca-500 (PART B). FORM ACA-500 (PART B). FORM ACA-500 (PART B).	R-985-14B. MANENT MAILING ADDRESS Arcade Bldg., Albany 7, N.Y. (item) (i) of the aircraft identily the Regulations of tration: UE January 28, 19	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N- 606 J fied in Item 3 above which is the Administrator, Part 501
d. ENGINE MAKE Pratt & Whitney 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Department 5. AIRCRAFT OWNER'S CERTIFICATIO I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM APPLICATION FOR REGISTRATION, FORM W-300 ON (DATE)	e. ENG ATION (Complete all items) b. PER b. PER b. PER cistered owner (or his agen Administration as required following evidence of regis ACA-500 (PART A). DATE OF ISS ACA-500 (PART B). FORM ACA- FORM ACA-1707, DATED aft must be by Section ded.	R-985-14B. MANENT MAILING ADDRESS Arcade Bldg., Albany 7, N.Y. Lettern) Lettern) Lettern aircraft identification: Lettern by the Regulations of tration: Lettern by the Regulations of trations of tration: Lettern by the Regulations of trations	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N- 606 J fied in Item 3 above which is the Administrator, Part 501 O CAA AIRCRAFT RECORDS BRANCH,

TI OUSA Reg. I NE TN∃MHOATTA □ SPOT CHECKED ☐ REINSPECTED Q3T43DDA 2 DATE CAN DESIGNATION NO. 2/10/26 **J20** DESIGNATION NO. AIRWORTHY UNAIRWORTHY (Check appropriate item) AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT 6. CAA REPRESENTATIVE CERTIFICATION (DATE) (яерыя статіом ротновіхер зісматияе) UNAIRWORTHY YHTROWRIA 🗌 by CAR 52 and was found to be: The aircraft described on the reverse has been inspected under the authority accorded certificated repair station 5. CAA APPROVED REPAIR STATION CERTIFICATION (DESIGNATION NO.) (NAME OF ISSUING REPRESENTATIVE) Stephen A. Patka, Jr. **T20**° 8. A PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE JAMBETY ZO. *996T 1. A CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE FODTURITY 10. 1957. 6. ➡ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS 4. A CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT b. ☐ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT 8. OPERATION LIMITATIONS. FORM ACA-309, WAS ISSUED (COPY ATTACHED) 4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED P. 🗗 PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER 🖪 ВҮ МЕСНАИІС, СЕЙТІГІСАТЕ ИО. W & E 1083266. 🗌 ВУ АРРКОУЕД REPAIR STATION, СЕRTIFICATE NO. ■ BY AIRCRAFT MANUFACTURER (BTAG) & LAST AIRWORTHINESS INSPECTION CONDUCTED February 9, 3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319) **SAUOH JATOT** SERIAL NO. **ZATOT HOURS** SERIAL NO. **TOTAL HOURS** SERIAL NO. *9T*999 TSLLT тоты ноивя 225368 4. A ENGINE RECORDS INDICATE THE FOLLOWING OPERATION: A AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 3759 \$05 SHOOH P. ☑ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED 8. LIRCRAFT NEW-NO PREVIOUS OPERATION OR MAINTENANCE HISTORY 2. AIRCRAFT AND ENGINE OPERATING RECORDS 4. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE) тнкоиен ськр ио. c. 🔼 AIRWORTHINESS DIRECTIVE SUMMARY .5-99 D. 🖪 AIRCRAFT LISTING PAGE NO. THROUGH SHEET REVISION NO. 8. A PIRCRAFT SPECIFICATION NO. 1. AIRCRAFT AND ENGINE CERTIFICATION BASIS (Check and complete applicable items) The sircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the following: (To be completed by a CAA representative or approved repair station) AIRCRAFT INSPECTION REPORT CIVIL AERONAUTICS ADMINISTRATION

U. S. DEPARTMENT OF COMMERCE

10-00837 FORM ACA-805a (11-51)

и. в. соченимент интитис огетсе 16—60837.

Form ACA 195 DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION (Rev. 10/55)

CANCELLATION RECORD

Sold-Purchaser failed to comply with Civil Air Regulations.

Registered O	New York, Department		Registration No) • N	. (606
		•				

Date cancelled on office record 5-7-57

CANCELLED FOR REASON CHECKED BELOW:

2	Accident	1-8-57		
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L	J	Exported.	(Export	certificate	No.	E
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Correspondence	barritar	unclaimed	

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Permanently	retired	from	service.

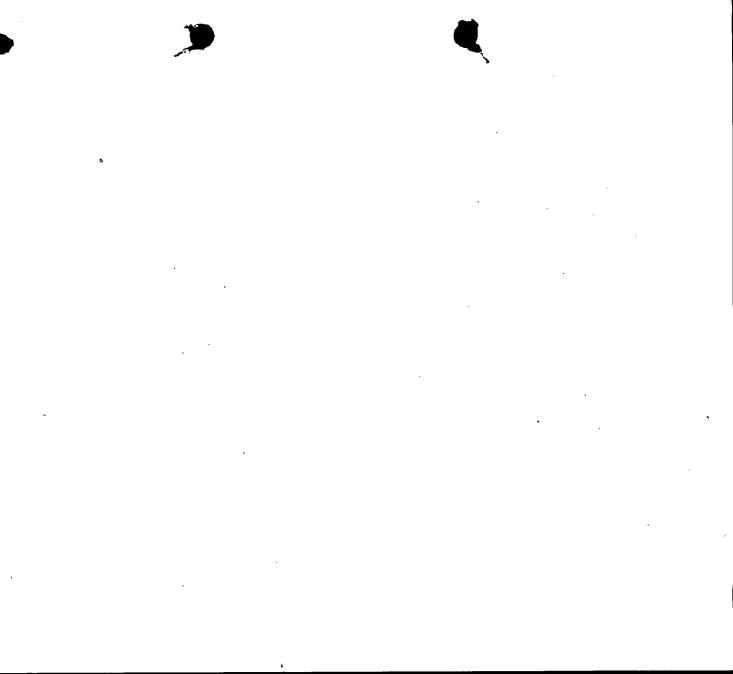
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MAJO	R REP	AIR AND ALTERATI		AIRFRAME,			LLER	OR APP	LIANCE)
1. AIRCRAFT	MAKE	CRITHNAN	Mo	G-21.		serial no. 1152		N 60	REGISTRATION MARK
2. OWNER	_	ring and even when a servation of the se	ORK Partnen	·T	4	SS (Street and number, city, : RCADE BUILD LBANY, NEW	ING		
3. COMPLE CORDAN	TE ONL	Y FOR UNIT REPAIR TH CIVIL AERONAUTION	ED AND/OR	ALTERED. DE 8.		•			/ERSE IN AC-
ТІМЦ		MAKE		MODEL		SERIAL NO.	MA	NATURE OF JOR REPAIR	WORK (Check) MAJOR ALTERATION
a. AIRFRAME		***************************************	₩ (As described	in item 1 above) (*****	************			XXXXXX
b. POWERPLAN	т								
c. PROPELLER									
d. APPLIANCE		TYPE AND MANUFACTURER							,
*AFT	ER the r	GHT AND BALANCE DA epairs and/or alterations d below were made.	case of	a spare compor n an aircraft.	ient, i	d by repair or alterat t will not be complet is time, it will be com	ed uni	til súch co	owever, in the mponent is in- talling agency,
CATEGOR	Υ ,	EMPTY WEIGHT (Po	ounds)*	ЕМРТУ СЕ	NTER OF	GRAVITY (Inches from datum	ı)•	USEFU	L LOAD (Pounds)*
STANI	DARD	6311.74			•	21.68°		1	688.25
		STATEMENT (Complete and	check)						
a. AGENCY'S NA	ME AND A	DDRESS		b. KIND OF AGE				. CERTIFICATE	E NO.
AERO	TRA	DES, INC.		-		ated Mechanic. ficated Mechanic.			
	-	UR AIRPORT	_	Certific	ated F	Repair Station.		115	;
RONK	ONKO	HA, NEW YORK		☐ Manufa		k if repair or alterat	ion		
				_	was m	ade under delegation rocedures.)	op-		
attachme	nts here	e repair and/or alteration to have been made in a furnished herein is true a	ccordance with	n the requireme	ents of	Part 18 of tha U. S.	nd des Civil	cribed on Air Regula	the reverse or tions and that
. (Date re	/7/5 pair and/o	r alteration completed)	_	JOSE	PH	R F72 (Signature of authorized	individ	2/1.0 ual)	
	to the	RETURN TO SERVICE authority specified below				inspected in the man	ner pr	escribed by	y the Adminis-
In AF	PPROVI	ED BY CAA Des CAA Avi Safety Ag	ignee □ Ma ation ☑ Re ent			nadian Department of	Trans	port Inspe	ctor of Aircraft
- O/	7/56 e of appro	val or rejection)			SEP mature o	H HTZEL.	CE e or iden	TER 1	HSPECTOI nber)
		TED ONLY BY CAA PE	RSONNEL		6				600
a. Forwar b. Accept		engineering comment 9-12-96 (Date)	☐ See at ☐ Reinspected	tached memors	andum ate)	Spot Che	cked_	(Date)
1 age	AA design	ation number)		- R	Uo.	Reg.] ASDO (Signature Aviation Saf	11 ety Age	nt)	NO

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, 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 CAA 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.

REHOVED AUXILIARY FUEL TANK FROM BILGE OF AIRCRAFT.
REMOVED THE FOLLOWING LOW FREQUENCY RADIO COMPONENTS:

ITEM	WEIGHT	ARM	HOMENT
PREVIOUS E.W. FROM 337,		00.00	44540 50
<i>5–1–55</i>	6412.24	22.07	<i>141518.56</i>
REMOVED SR.LOADING COIL	- 1.80	+174.5	- 314.10
REMOVED AUTENUA MOTOR REEL	- 6.80	<i>+148.0</i>	-1006.40
REMOVED ADF RECTIFIER	- 5.60	+152.0	<i>-851.20</i>
REMOVED TRAILING ANTENNA MA	sr - 1.80	+ 277.0	-493.60
REMOVED AUX. FUEL TANK	- 75.00	+ 27.0	-2050 . 00
REMOVED AUX. FUEL PURP & VA	LVE-9.50	-70.0	<i>+66.50</i>
NEW E.W. & C.G.	6311.74	21.68	136864.76

NEW USEFUL LOAD = 8000 - 6311.74 = 1688.26 LBS.

BASIC LOADING

LOADING DATUM IS CENTROID OF NOSE BAGGAGE COMPARTMENT 65" FORWARD

ITEM	WEIGHT	ARM	UNITS	
EMPTY WEIGHT	6311.74	8 6/6 8	547.10	
PILOT	<i>170.00</i>	60.00	10.20	
OIL (15GALS)	113.00	73.00	8.25	
N EW BASIC WEIGHT (J	NITS			
N EW BASIC WEIGHT (U 565.55)	6594.74		<i>565.55</i>	

END.

[•]If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Mr. Birbeck has requested photostats of the following on N606:

Form ACA-305	dated	2/10/56	both	sides
Form ACA-337	11	9/7/56	11	11
n	11	5/1/55 ′	Ħ	11
11	11	4/2/54	tt	11

Please phone Mr. Birbeck when these are ready.

Photostats delivered to
No Burback. TR 1/15/57

Accewich MA Seerbick

>1-23 > 1/16/5-1

 $\sum_{i=1}^{n} (i - i)^{n} = \sum_{i=1}^{n} (i -$

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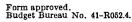
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MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

			·				·	
1. AIRCRAFT	Grumman	мо	G-21A	SERIAL NO.		NATIONALITY AND REGISTRATION MARK N = 606		
	NAME (First, middle, last)			ADDRESS (Street and number, city, zone and State)				
2. OWNER	State of New Yor Conservation Dep			Arcade Albany				
3. COMPLET	E ONLY FOR UNIT REPAIR CE WITH CIVIL AERONAUTIC	ED AND/OR	ALTERED, DE			ED ON RE	VERSE IN AC-	
						NATURE OF	WORK (Check)	
UNIT	MAKE		MODEL	SERIAL		AAJOR REPAIR	MAJOR ALTERATION	
a. AIRFRAME	***************************************	♦ (As described	in item 1 above) 6	***************************************	••••			
b. POWERPLAN	·							
c. PROPELLER								
	TYPE AND MANUFACTURER			·				
d. APPLIANCE								
•AFT	T WEIGHT AND BALANCE DA ER the repairs and/or alterations described below were made.	case of	a spare compon n an aircraft.	npleted by repair ent, it will not be At this time, it wi	completed u	ntil such co	mponent is in-	
CATEGORY	EMPTY WEIGHT (Po	ounds)*	EMPTY CEN	ITER OF GRAVITY (Inche	s from datum)*	USEF	JL, LOAD (Pounds)*	
Stendar	ed 6412.24	4	2	22.07	•	1588		
5. CONFOR	MITY STATEMENT (Complete and	check)						
a. AGENCY'S NAI	ME AND ADDRESS		b. KIND OF AGE	VCY		e. CERTIFICAT	E NO.	
MacArth	Radio Service, In nur Airport coma, N.Y.	ne.	 □ U. S. Certificated Mechanic. □ Foreign Certificated Mechanic. □ Certificated Repair Station. □ Manufacturer. □ (Check if repair or alteration was made under delegation option procedures.) 					
attachmenthe inform	chat the repair and/or alterations hereto have been made in a nation furnished herein is true at 1955 air and/or alteration completed)	ccordance with	n the requireme	nts of Part 18 of knowledge.	above and de the U. S. Civil	Air Regula	the reverse or tions and that	
	L FOR RETURN TO SERVICE to the authority specified below is				the manner p	orescribed b	y the Adminis-	
च्चि AF □ RE	PROVED BY \ \bigcap CAA Des CAA Avi Safety Ag	ignee 🗌 Ma ation 🙀 Re cent		Canadian Depa	rtment of Trai	nsport Inspe	m	
May l	1955 of approval or rejection)		(Sig	nature of authorized ind	lividual; title or id	entification nu	nspector mber)	
7. TO BE CO	MPLETED ONLY BY CAA PE	RSONNEL						
a. Forward	ded for engineering comment ed 5-25-55	☐ See at Reinspected	tached memora		Spot Checked	l	(Date)	
Mag	A designation number			Al For	R A vistion Safaty A	leg. I N	TY 1	

16--54010-4

MAY 5 REC'D

Form ACA-337 (4-52)



This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, 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 CAA 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.

1. Relocated A.R.C. Type 15B Omni from bow compartment to aft baggage compartment.

, ·	Weight	Arm	Moment
Previous Removed 15B	6412.24 23.22	21.68 66.57	139,017.36 1,545.75
	6389.02	•	137,471.61
Added 15B	→ 23.22	174.3	≠ 4,047.25
	6412.24	22.07	141,518.86

New empty weight New empty C.G. Useful load 6412.24 22.07

8000 - 6412 = 1588

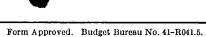
RECEIVED

JUN 7 1 52 PM '55

LEHIN. R. FECORDS BRANCH

U additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.





U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS

Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

		1	resentative.	**
1. TYPE OF APPLICATION (Check which)				
a. ORIGINAL ISSUANCE OF CERTIFICATE		d. RECERTIFICATION U	NDER THE PRO	/ISIONS OF CAR 8
b. 2 ANNUAL INSPECTION FOR RENEWAL OF	CERTIFICATE	e. MULTIPLE CERTIFIC		
c. AMENDMENT OR MODIFICATION OF CUR		f. 🗆		
2. AIRWORTHINESS CLASSIFICATION It is requested that the Certificate of a worthiness classification(s):			n of the aircr	aft in the following air-
a. 🏝 STANDARD (NORMAL, UTILITY, ACROBAT	TIC, TRANSPORT CATEGO	ORIES)	•	•
b. LIMITED (SEE CAR 9)				
c. RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation	(s) to be conducted)			:
AGRICULTURAL AND PEST CONTR	OL	□ PATROLLING		
AERIAL ADVERTISING		FOREST AND WILDL	IFE CONSERVATI	ON
☐ AERIAL SURVEYING		☐ WEATHER CONTROL		
GLIDER TOWING		OTHER		
d. TEXPERIMENTAL		_		
(Check the type of experimental operation(8) to	be conducted)			
RESEARCH AND DEVELOPMENT		RACING		
☐ AMATEUR-BUILT		☐ EXHIBITION		
☐ DEMONSTRATION		☐ OTHER		
3. AIRCRAFT IDENTIFICATION (Complet	···			
a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	•	c. AIRCRAFT S	ERIAL NO.
^	G21A		1152	
Grumman	GZIR		11013	
d. ENGINE MAKE	GZIA	e. ENGINE MODEL		D Dt what
	GZIA	e. ENGINE MODEL	R-985-14	B Right
d. ENGINE MAKE			R-985-14	
d. ENGINE MAKE Pratt & Whitney (2)			R-985-14 R-985-Aî	
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME		ems) b. PERMANENT MAILING A	R-985-14 R-985-Ar	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York	AATION (Complete all ii	ems) b. permanent mailing a Arcade Blag.	R=985=14 R=985=Ar	-1-14B Left
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME	AATION (Complete all ii	ems) b. PERMANENT MAILING A	R=985=14 R=985=Ar	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York	AATION (Complete all ii	ems) b. permanent mailing a Arcade Blag.	R=985=14 R=985=Ar	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York	AATION (Complete all ii	ems) b. permanent mailing a Arcade Blag.	R=985=14 R=985=Ar	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme	MATION (Complete all ii nt	Arcade Blag. Albany 7, Le	R=985=14 R=985=Ar	c. AIRCRAFT NATIONALITY
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the reservation	nt ON (Check and complete a)	Arcade Bldg. Albany 7, Le	R-985-14 R-985-Ar DDRESS York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the regregistered* with the Civil Aeronautics	nt ON (Check and complete a) gistered owner (or his Administration as re-	Arcade Bldg. Albany 7, Le	R-985-14 R-985-Ar DDRESS York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the	nt ON (Check and complete argistered owner (or his Administration as refollowing evidence of the complete argistered owner).	Arcade Blag. Albany 7, Le	R-985-Ar R-985-Ar DDRESS y York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM	nt ON (Check and complete a) gistered owner (or hi Administration as re following evidence of	Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N= 606 Item 3 above which is dministrator, Part 501
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. A CERTIFICATE OF REGISTRATION, FORM b. APPLICATION FOR REGISTRATION, FORM	nt ON (Check and complete a) gistered owner (or hi Administration as re following evidence of	Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N= 606 Item 3 above which is dministrator, Part 501
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATIO I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM b. APPLICATION FOR REGISTRATION, FORM W-300 ON (DATE)	nt ON (Check and complete all in Administration as refollowing evidence of ACA-500 (PART B). FOR	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York. Sidentified in the Analy 28, Inches to CAA And Analy 28, Inches to CAA Analy 28, Inches to	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501 947 RCRAFT RECORDS BRANCH.
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATIO I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM W-300 ON	nt ON (Check and complete all in Administration as refollowing evidence of ACA-500 (PART B). FOR	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York. Sidentified in the Analy 28, Inches to CAA And Analy 28, Inches to CAA Analy 28, Inches to	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501 947 RCRAFT RECORDS BRANCH.
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATIO I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM b. APPLICATION FOR REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, "In order to be eligible for registration an aircrowned by a citizen of the United States, as defined	nt ON (Check and complete all in the complete all in the complete all in the complete and complete all in the complete and complete all in the complete and complete all in the complete all in the complete and complete all in the complete and complete all in the	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York. Sidentified in the Analy 28, Inches to CAA And Analy 28, Inches to CAA Analy 28, Inches to	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501 947 RCRAFT RECORDS BRANCH.
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, *In order to be eligible for registration an aircrowned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as amen	nt ON (Check and complete all in the complete all in the complete all in the complete and complete all in the complete and complete all in the complete and complete all in the complete all in the complete and complete all in the complete and complete all in the	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York. Sidentified in the Analy 28, Inches to CAA And Analy 28, Inches to CAA Analy 28, Inches to	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501 947 RCRAFT RECORDS BRANCH.
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. A CERTIFICATE OF REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, *In order to be eligible for registration an aircrowned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as amendation.	nt ON (Check and complete all is gistered owner (or his Administration as refollowing evidence of ACA-500 (PART A). DATE ACA-500 (PART B). FOR ACA-500 (PART B). FOR FORM ACA-1707, DATED and the must be by Section added.	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is dministrator, Part 501 947 RCRAFT RECORDS BRANCH.
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. A CERTIFICATE OF REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, *In order to be eligible for registration an aircr owned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as amer ATTACHMENTS (Check which)	nt ON (Check and complete all is gistered owner (or his Administration as refollowing evidence of ACA-500 (PART A). DATE ACA-500 (PART B). FOR ACA-500 (PART B). FOR FORM ACA-1707, DATED and the must be by Section added.	Arcade Bldg. Arcade Bldg. Albany 7, Le	R-985-14 R-985-An DDRESS W York. Gidentified in the Analy 28, Inches to CAA An ARDED TO CAA An WWW.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is administrator, Part 501 1947 RCRAFT RECORDS BRANCH,
d. ENGINE MAKE Pratt & Whitney (2) 4. AIRCRAFT REGISTRATION INFORM a. REGISTERED OWNER'S FULL NAME State of New York Conservation Departme 5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the registered* with the Civil Aeronautics or 502 and when operated displays the a. A CERTIFICATE OF REGISTRATION, FORM W-300 ON c. DEALER'S REGISTRATION CERTIFICATE, *In order to be eligible for registration an aircrowned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as amendation.	nt ON (Check and complete all in the complete all in the complete all in the complete and	Arcade Bldg. Arcade Bldg. Albany 7, Lee Depropriate item) Is agent) of the aircraft equired by the Regulat of registration: FOR ISSUE January A. FORWARM ACA-500, PART A.	R-985-14 R-985-An DDRESS W York. Gidentified in the Analy 28, Inches to CAA An ARDED TO CAA An WWW.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N— 606 Item 3 above which is administrator, Part 501 1947 RCRAFT RECORDS BRANCH,

SPOT CHECKED □ REINSPECTED GETTED ACCEPTED CAA DESIGNATION NO. DATE Jan. 20, J20 •996T DESIGNATION NO. (Check appropriate item) I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT **УНТЯОЖЯІАИ** ☐ УНТЯОЖЯІА △ 6. CAA REPRESENTATIVE CERTIFICATION (DATE) (REPAIR STATION AUTHORIZED SIGNATURE) THTROWRIANU [**ҮНТЯОМЯІА** by CAR 52 and was found to be: The aircraft described on the reverse has been inspected under the authority accorded certificated repair station 5. CAA APPROVED REPAIR STATION CERTIFICATION Joseph R. Etzel (NAME OF ISSUING REPRESENTATIVE) (DESIGNATION NO.) Repair Station 115. 8. A PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE ADXII S (DATE) *996T OS VIBURAL OS 1956. 🕻 🔀 CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE e. 🖫 THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS 4. X CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT C. 🗌 CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT b. ☑ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT 8. 🗌 OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED) 4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED P. 🖫 PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319. WAS RETURNED TO OWNER BY MECHANIC, CERTIFICATE NO. A & E 17931. BY APPROVED REPAIR STATION, CERTIFICATE NO. ■ BY AIRCRAFT MANUFACTURER (DATE) B. LAST AIRWORTHINESS INSPECTION CONDUCTED JARALY 20, 1955. 3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319) SERIAL NO. TOTAL HOURS **2RUOH JATOT** SERIAL NO. SERIAL NO. TOTAL HOURS _ 2**253**68 - °02:668 SERIAL NO. _ TOTAL HOURS TGLLT 02:662 4. M ENGINE RECORDS INDICATE THE FOLLOWING OPERATION: . AO LATOT A GETARATA OPERATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF ... 2453:45 $p.\ \underline{\ M}$ Compliance with applicable airworthiness directives recorded 8.

AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY Recovered in 1953. 2. AIRCRAFT AND ENGINE OPERATING RECORDS 1.17 4. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE) тнвоиен савр ио. 55-1. 🕳 🏋 АІВМОВТНІЙЕSS DIRECTIVE SUMMARY 🗔 D. ▼ AIRCRAFT LISTING PAGE NO. 98-99-100 THROUGH SHEET REVISION NO. a. 🗌 AIRCRAFT SPECIFICATION NO. 1. AIRCRAFT AND ENGINE CERTIFICATION BASIS (Check and complete applicable ilems) The sircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the sollowing: (To be completed by a CAA representative or approved repair station) AIRCRAFT INSPECTION REPORT CIVIL AERONAUTICS ADMINISTRATION U. S. DEPARTMENT OF COMMERCE

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS

Please print or type. Submit this form to the APPLICATION FOR AIRWORTHINESS CERTIFICATE Civil Aeronautics Administration Aviation Safety AND/OR ANNUAL INSPECTION OF AN AIRCRAFT Field Representative.

1. TYPE OF APPLICATION (Check which)	,			
a. ORIGINAL ISSUANCE OF CERTIFICATE		d. TRECERTIFICATION L	INDER THE PRO	OVISIONS OF CAR 8
b. 🗷 ANNUAL INSPECTION FOR RENEWAL OF	CERTIFICATE	e. MULTIPLE CERTIFIC	ATE UNDER TH	IE PROVISIONS OF CAR 8
c. AMENDMENT OR MODIFICATION OF CUP	RENT CERTIFICATE	f. 🗌	•	
2. AIRWORTHINESS CLASSIFICATION	L (Chank appropriate item/e	A)		
It is requested that the Certificate of worthiness classification(s):			n of the airc	raft in the following air-
8. E STANDARD (NORMAL, UTILITY, ACROBA	TIC, TRANSPORT CATEGO	ORIES)		
b. LIMITED (SEE CAR 9)				
c. RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation	(s) to be conducted)			
☐ AGRICULTURAL AND PEST CONTI	• •	PATROLLING		
☐ AERIAL ADVERTISING		☐ FOREST AND WILDL	IFE CONSERVAT	TION
AERIAL SURVEYING		☐ WEATHER CONTROL		
GLIDER TOWING		OTHER		
d. T EXPERIMENTAL				
(Check the type of experimental operation(s) to	be conducted)			
☐ RESEARCH AND DEVELOPMENT		☐ RACING		
☐ AMATEUR-BUILT	•	☐ EXHIBITION		
☐ DEMONSTRATION		□ ОТНЕК		
		· · · · · · · · · · · · · · · · · · ·		
3. AIRCRAFT IDENTIFICATION (Comple B. AIRCRAFT MÅKE	te all items) b. AIRCRAFT MODEL		c. AIRCRAFT	SEDIAL NO
B. AIRCRAFT MARE	B. AIRCRAFT MODEL		e. AIRCRAFI	SERIAL NO.
CRUMAN	G- 21A		1152	
d. ENGINE MAKE		e, ENGINE MODEL		
PRATT & WHITNEY		R-985-AN 14 B		
4. AIRCRAFT REGISTRATION INFOR	MATION (Complete all i	tems)		
a. REGISTERED OWNER'S FULL NAME		b. PERMANENT MAILING A	ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
STATE OF NEW YORK		ARCADE BIDG.	•	
CONSERVATION DEPT.		AIBANY, N.H		N- 606
·		:		
S ALDODAST OWNED & CEDTUS	ONI (Charles and a constant)			
5. AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the re-			t identified i	n Item 3 shove which is
registered* with the Civil Aeronautics	Administration as r	equired by the Regula	tions of the	Administrator, Part 501
or 502 and when operated displays the			7016	
a. 🔀 CERTIFICATE OF REGISTRATION, FORM				
b. APPLICATION FOR REGISTRATION, FORM	A ACA-500 (PART B). FO	RM ACA-500, PART A, FORWA	ARDED TO CAA	AIRCRAFT RECORDS BRANCH,
W-300 ON(DATE)				
c. DEALER'S REGISTRATION CERTIFICATE,	FORM ACA-1707, DATED			_
*In order to be eligible for registration an airco	raft must be	,	1. 0	ouewaten Dep Chief Access of
owned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as ame	nded.	et of hew	Jour,	onewares . If
ATTACHMENTS (Check which)		· , 600	u class	de Amore
ACA-319 WEIGHT AND BALANCE RE	PORT	641. C. M	1 pass	, chief may
🔁 ACA-337 🔲 DATA, DRAWINGS, ETC.		(SIGNATURE OF REGISTE	RED OWNER OR A	UIHORIZED AMENI)
☐ ACA-317 ☐ UNAPPROVED DEVIATION	DATA4	/2/5 <u>/</u>		(TIT) E\
		(DATE)		(TITLE)

/ RECT

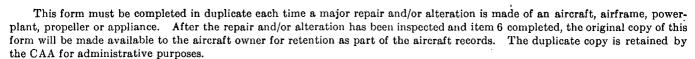
U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

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A REINSPECTED	3TAG	CAA DESIGNATION NO.	AVIATION SAFETY AGENT'S SIGNATURE
(msi sibirqorqq	DATE	DESIGNATION NO.	DESIGNEE.2 SIGNATURE
хнтяо <u>мягами □</u>	интяоwя _{ІА} [TI QUOD IT	I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVE
(·		6. CAA REPRESENTATIVE CERTIFICATION
75/5/\S\ (DATE)	(38IITANS)E	REPARE STATION AUTHORIZE	`
	1/1/	:000	No. 112 by CAR 52 and was found i
noista riager bestedites bebrossi	s withority s		need ash estever oht no beditzeeb thattine oht
		· NOI.	5. CAA APPROVED REPAIR STATION CERTIFICAT
FCEIVED 11 PM "54 NECORDS BRATICH V-360 DAMISS	SIGNATION NO.)	K rikj k ^(3TAQ) 330)	BY PRUL Nyholth (NAME OF ISSUING REPRESENTATIVE)
PM BRA	(DATE)	796T . 25 . nsi	
FCEIVE 11 P NECORDS B V-360		Apr Apres Apr	C. 🔀 CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSI
13 J			e. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRA
0. – 0.4			c. ☐ CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AV. d. ☒ CURRENT WEIGHT AND BALANCE INFORMATION IS AVA
2 2	ز	•	b. ☑ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS
F. J.			a. 🔲 OPERATION LIMITATIONS. FORM ACA-309, WAS ISSUED
A		AIEMED	 4. АІВМОВТНІЙЕЗ ВОСПМЕЙТЯ ІЗЗПЕВ ОВ ВЕ
,	Омиев	19, WAS RETURNED TO	р. ∰ РЕRIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-:
			☐ BY MECHANIC, CERTIFICATE NO.
-		۰۰ ۲۲۶	🛛 ВҮ АРРКОУЕD КЕРАІR STATION, СЕRТІГІСАТЕ И
		(DATE)	Д•€У АІВСВАЕТ МАИЛЕАСТИВЕВ
			a. LAST AIRWORTHINESS INSPECTION CONDUCTED
(616	ОВМ РСР-	LECORDED ON F	3. PREVIOUS INSPECTION RECORD (INSPECTION
_	<u></u>	ZATOT JATOT	SERIAL NO.
-		гатот	SERIAL NO.
	u	SAUOH JATOT	I SERIAL NO. 17751
Mon previous History	O.S.T	*O! SAUOH JATOT	R SERIAL NO. 225368
sаион			a. define records indicate the airframe has been a the following operating. d. define records indicate the following operating.
381104 38	•3185°		b. 4 COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIREC
			a. ☐ AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTE
		s	2. АІЯСЯАЕТ АИД ЕИСІИЕ ОРЕВАТІИС ВЕСОЯД
		(FICATE)	d. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT
	9-75 ON	тнвоиен сявр	o. ☐ AIRWORTHINESS DIRECTIVE SUMMARY 24.
	7 (3		b. 🛣 AIRCRAFT LISTING PAGE NO. 98
	ON N	нвопен знеет веуізіо	A. TARCRAFT SPECIFICATION NO.
	-		(Check and complete opplicable items) 1. AIRCRAFT AND ENGINE CERTIFICATION BASI
cound to conform to the following:	bas beited	sni nəəd esn m101 s	The sircraft described in Item 3 on the reverse of thi
(noitnts rings		representative or i	(To be completed by a CAA
		T MOITD ADMINIST	

Form approved. Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

	R REPAIR AND ALIERAL	`				
1. AIRCRAFT	GRUMMAN	G MC	DDEL	SERIAL NO. 1152	NATIONALITY A	ND REGISTRATION MARK
2. OWNER	NAME (First, middle, last) State of New York Conservation Dept.		AC	DRESS (Street and number, city, Arcade Bailding Albany, New York		
3. COMPLE CORDAN	TE ONLY FOR UNIT REPAIR CE WITH CIVIL AERONAUTI	RED AND/OR /	ALTERED. DESC 8.	RIBE WORK ACCOMP	ISHED ON RE	EVERSE IN AC-
	MILE		HODE	CEDIM NO	NATURE O	F WORK (Check)
UNIT	MAKE		MODEL	SERIAL NO.	MAJOR REPAIR	MAJOR ALTERATION
a. AIRFRAME	•••••	♦♦ (As described	in item 1 above) 👭	••••••	XXX	
b. POWERPLAN	т		, •			
c. PROPELLER					,	,
******	TYPE AND MANUFACTURER				1 .	
d. APPLIANCE						
*AFT	T WEIGHT AND BALANCE D ER the repairs und/or alterations described below were made.	case of a	a spare component n an aircraft. At	leted by repair or altera t, it will not be complet this time, it will be com	ed until such o	However, in the component is innestalling agency,
CATEGOR	Y EMPTY WEIGHT (F	ounds)*	EMPTY CENTER	R OF GRAVITY (Inches from datum	n)* USE	FUL LOAD (Pounds)*
STANDARD	6412		21.68 i	n.	158	8
5. CONFOR	MITY STATEMENT (Complete an	d check)				
a. AGENCY'S NA	ME AND ADDRESS		b. KIND OF AGENCY		c. CERTIFICA	ATE NO.
Mac Ar	RADES, Inc., thur Airport akoma, N. Y.		Foreign Co Certificate Manufactu (C) wa:	ificated Mechanic. ertificated Mechanic. d Repair Station. urer. heck if repair or alterates made under delegation n procedures.)		5
attachme	that the repair and/or alteratints hereto have been made in a nation furnished herein is true	accordance with	the best of my kn	s of Part 18 of the U.S. owledge.	nd described or Civil Air Regu	lations and that
4/2/5	pair and/or alteration completed)		Joseph R.		individual)	yer_
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	AL FOR RETURN TO SERVIC to the authority specified below it is			ras inspected in the man	ner prescribed	by the Adminis-
Pursuant trator and	to the authority specified below d is PPROVED BY CAA Description CAA Av Safety A	w the unit iden	ntified in item 3 wanufacturer pair Station	Canadian Department of Other (Specify)	-	
Pursuant trator and X A	to the authority specified below d is PPROVED BY CAA Description CAA Av Safety A	w the unit iden	antified in item 3 wanufacturer pair Station Jespph R.	Canadian Department of Other (Specify)	Transport Insp	
Pursuant trator and X A	to the authority specified below is PPROVED BY CAA Description CAA Av Safety A	w the unit idensignee	antified in item 3 wanufacturer pair Station Jespph R.	Canadian Department of Other (Specify) Etzel (Mater Inc.)	Transport Insp	Dector of Aircraft INC. INC. INC. INC. INC. INC. INC. INC.
Pursuant trator and RI AI	to the authority specified below is PPROVED BY CAA Decrease CAA Av Safety A 54 of approval or rejection) OMPLETED ONLY BY CAA PE ded for engineering comment	w the unit idensignee	anufacturer pair Station Jespph R. (Signation detached memorand	Canadian Department of Other (Specify) Etzel (Market Institute of authorized individual; title	Transport Insp	Dector of Aircfaft INC. INC. INC. INC. INC. INC. INC. INC.
Pursuant trator and R A A A A A A A A A A A A A A A A A A	to the authority specified below is PPROVED BY CAA Decrease CAA Av Safety A 54 of approval or rejection) OMPLETED ONLY BY CAA PE ded for engineering comment	w the unit idensignee	anufacturer pair Station Despen R.	Canadian Department of Other (Specify) Etzel (Specify) ure of authorized individual; title um	Transport Insp	Dector of Aircraft INC. INC. INC. INC. INC. INC. INC. INC.
Pursuant trator and R A A A A A A A A A A A A A A A A A A	to the authority specified below is PPROVED BY CAA Decrease CAA Av Safety A 54 of approval or rejection) OMPLETED ONLY BY CAA PE ded for engineering comment	w the unit idensignee	anufacturer pair Station Jespph R. (Signation detached memorand	Canadian Department of Other (Specify) Etzel (Specify) ure of authorized individual; title um	Transport Insport Insp	Dector of Aircfaft INC. INC. INC. INC. INC. INC. INC. INC.



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.

Annual inspection for relicense.

Removed old AN-14B Pratt & Whitney Engines, and installed overhauled

AN-14B Engines.

Right - s/N 225368 Left - s/n 17751

Propellers overhauled by Pester Propeller Service and reinstalled.

Repaired crack in Left Firewall. Right and Left Engine Mounts Magnafluxed.

Removed, Repaired, magnafluxed and Cadmium plated right upper outboard Engine mount fitting.

Replaced leaky rivets in left and right fuel tanks.

Repaired leaks around handhole covers on bottom of L/R fuel tanks.

Replaced left brake lining.

Replaced rudder trim tab control cable.

Rebushed trim tab end of rudder tab actuating rod.

Replaced broken bondings as necessary.

Tightened baky fuel system fittings in cockpit.

Touched up paint as necessary.

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OR 12 (1 11 PM %)

*H additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.



U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

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Form approved. Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

אטנאווו	KEI AAR AND REIERAIN		AINI NAME, I		i setti ji noi Li			<u> </u>
1. AIRCRAFT	MAKE Grumman	MC	G-21 A		SERIAL NO. 1152	NATIO	606	D REGISTRATION MARK
2. OWNER	NAME (First, middle, last) State of New York Conservation Dept.			ADDRESS	(Street and number, city, 2 Arcade Bldg Albany, New	• •	ute)	
3. COMPLETI CORDANC	E ONLY FOR UNIT REPAIRI E WITH CIVIL AERONAUTIC	ED AND/OR A	ALTERED. DES	CRIBE	WORK ACCOMPL	.ISHED	ON RE	VERSE IN AC-
UNIT	MAKE		MODEL		SERIAL NO.		REPAIR	WORK (Check) MAJOR ALTERATION
a. AIRFRAME	***************************************	♠ (As described	in item 1 above)' 🙌	*****	***********			
b. POWERPLANT	Pratt & Whitney	R-985-	AN-1-14B		17751	x		·
c. PROPELLER		•						
	TYPE AND MANUFACTURER	•						
d. APPLIANCE	-30-							
*AFTE	WEIGHT AND BALANCE DA R the repairs and/or alterations escribed below were made.	case of	a spare compone n an aircraft. 'A	nt, it v	by repair or alterat will not be complete time, it will be com	ed until	such co	
CATEGORY	EMPTY WEIGHT (Po	unds)*	EMPTY CENT	ER OF GR	RAVITY (Inches from datum	ı)*	USEF	UL LOAD (Pounds)*
Standar	d 6412		21.68	58			1588	
5. CONFORM	ITY STATEMENT (Complete and	check)						
a. AGENCY'S NAMI	E AND ADDRESS		b. KIND OF AGEN	CY		c. 0	ERTIFICAT	E NO.
Aviation Mercer C	Aircraft Company Service Division ounty Airport nton, New Jersey	n.	☐ U. S. Certificated Mechanic. ☐ Foreign Certificated Mechanic.					,
attachment the informa	nat the repair and/or alteratic is hereto have been made in a cation furnished herein is true a 22, 1954 ir and/or alteration completed)	ccordance with	n the requiremen	ts of X	art 18 of the U.S.	Civil Air	Regula	the reverse or ations and that
		the unit ider			spected in the man	ner preso	cribed b	y the Adminis-
□ RE.	PROVED BY CAA Desi JECTED BY CAA Avia Safety Ag ACH 22 1954 dapproval or rejection		pair Station Ralf	Other	dian Department of (Specify) Cochran Clubro individual; title	uief	↓ Insp	ector of Aircraft
7. TO BE CO	MPLETED ONLY BY CAA PE	RSONNEL						
	ed for engineering comment		tached memorar		Spot Che	ecked	2	(Date)
	A sessignation number)			رز	(Signature Aviation Saf	ety Agent)	æ_	
16-54010-4			AP	3 7	RECO	,	Fo	rm ACA-337 (4-52)

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 CAA 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.

Engine given major overhaul in accordance with manufacturers All new rings, bearings and gaskets installed. specifications.

Engine run on test stand and functions according to specifica-See attached engine test log and parts list.

ATTACHED:

Engine Test Log Engine Parts List

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

SPARTAN SIRCRAFT COMPANY Aviation Service Division Mercer County Airport West Trenton, New Jersey

March 22, 1954

The Following parts were used in the overhaul of Pratt and Whitney R-985-AN-1-14B engine, serial No-17751, engine shop work order 26103.

1	68	3965	Gear Cam Reduction
	ea	35937	Shaft Assy - Valve Rocker
1	68	6233	Gear-Fuel Pump Drive
	ea	34463	Flyweight-Outer 9X
	98	32835	Bearing-Rear Main
10		45943	Tappet Assy - Value
10		39292	Cover Assy - Pushrod
	68	6515	Gear - Collector Intermediate
	ea	9016	Bearing - Rocker Arm
	ea	16047	Gear Assy Tachometer Drive

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AUGIN & RECORDS BRANCH

SPARTAN AIRCRAFT COMPANY AVIATION SERVICE DIVISION MERCER COUNTY AIRPORT WEST TRENTON, NEW JERSEY

ENGINE TEST LOG

Owner Spartan Aircraft			aft -	Engine Make P. & W. Reason for Test Run Over						o -Ov er	haul
F3 3 .	- -3/20/6			Series	 985 -		<u></u> 70	tal Run•	in Time	4:30	
	rder No.				No.					4:00	III. 9 +
P		-6103	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2 COMPANDED	17751	,				
 	<u> </u>	Man.	Oil	Oil in	Cil out		Fuel	Oil		er Head '	
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11.15	1000	21	75	104	-104	4.0	50	70-	-212		
11.30	1200	23	75	104	-113	-4-0	-65	70-	257		-
11:45	1200-	88	76-	104-	113	4.0	55	70-	-857		
12:00	1500-	23	82-	104	122	4.0	80-	69	-311	ļ	<u> </u>
12:15	1500-	23	82-	104	122	4.0	80-	69-	-311		-
13:30	1600	25	86	104	122	4.0	100	69	-338		+
12.45	1600-	25	85	104	123	4.0	100-	69-	-338		
1.00		25	85	104	123	4.0	100	69	-338	Scree	0.01
1.15	1600	25	85	104	122-	-4.0	100	69	338-	Check	D.K
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2+15	1850-	28	87	132	140	4.0	130-	64	365		<u> </u>
2+30	1850	28	87	122	140	4.0	130	64	365		<u> </u>
2.45	1850	28	87	122	140	4.0	130	64	365		<u> </u>
3+00	1950-	30	89	131	149	4.0	} 180-	63-	365-		
3+15	-1950	30-	89	131	149	4.0	180	63	365		
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APR 12 | 11 PM "54 ADHIN & RECORDS BRANCH

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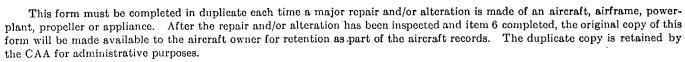
U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION



Form approved. Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

			,					,
1. AIRCRAFT	Grumman	Mo	G-21 A	SE	1152	NATIO	NALITY AN	ID REGISTRATION MARK
2. OWNER	NAME (First, middle, last) State of New York Corporation Don't			Arcade Bldg., Albany, New York				
3. COMPLET CORDAN	Conservation Dept. TE ONLY FOR UNIT REPAIRS CE WITH CIVIL AERONAUTIC	ED AND/OR A	ALTERED. DE 8.	SCRIBE V	· · · · · · · · · · · · · · · · · · ·			VERSE IN AC-
UNIT	MAKE		MODEL		SERIAL NO.	NATURE OF WORK (Check)		WORK (Check)
UNII	. MAKE		MODEL		SERIAL NO.	MAJOR REPAIR		MAJOR ALTERATION
a. AIRFRAME	***************************************	♠ (As described	in item I above) 6	*********	******			
b. POWERPLAN	PRATT & WHITNEY	R-985-A	N-1-14B	F	2-225368	X	<u> </u>	
c. PROPELLER		· · · · · · · · · · · · · · · · · · ·		•				
d. APPLIANCE	TYPE AND MANUFACTURER		•					
*AFT	T WEIGHT AND BALANCE DA ER the repairs and/or alterations described below were made.	case of	a spare compon n an aircraft.	ent, it wil	repair or alteration repair or electrical repair or electrical repair or electrical repair repair or electrical repair repair or electrical repair repair or electrical repair or electrical repair repair or electrical repair repair or electrical repair repair or electrical repair re	l until :	such co	mponent is in-
CATEGOR	EMPTY WEIGHT (Po	unds)*	EMPTY CEN	ITER OF GRAV	ITY (Inches from datum)*	'	USEF	UL LOAD (Pounds)*
Standar	6412		21.68	21.68 in			1588	
5. CONFOR	MITY STATEMENT (Complete and	check)				1	•	
a. AGENCY'S NA	ME AND ADDRESS		b. KIND OF AGE	(CY		c. C	ERTIFICAT	Ė NO.
AVI MER	RTAN AIRCRAFT COMPANY ATION SERVICE DIVISIO CER COUNTY AIRPORT T TRENTON, NEW JERSEY		 □ U. S. Certificated Mechanic. □ Foreign Certificated Mechanic. ■ Certificated Repair Station. □ Manufacturer. □ (Check if repair or alteration was made under delegation option procedures.) 					
attachmer	that the repair and/or alteration its hereto have been made in a mation furnished herein is true a	cordance with	n the requireme	nts of Par	t 18 of the U.S. C	l descri ivil Air	bed on Regula	the reverse or ations and that
	RCH 15, 1954 pair and/or alteration completed)	(Ralf for	hran (S	Occupantion of authorized in	dividual)		
	L FOR RETURN TO SERVICE to the authority specified below is	-	lete appropriate item.	;)	ected in the manne	er presc	ribed b	y the Adminis-
≅ AF	PROVED BY CAA Desi	gnee	nufacturer [pair Station [☐ Canadia☐ Other (an Department of T	'ranspo	rt Inspe	ector of Aircraft
	aCH 15, 1954 of approval or rejection)		(Kal	nature of auth	to clus	or identific	cation nu	mber)
· · · · · · · · · · · · · · · · · · ·	OMPLETED ONLY BY CAA PE	RSONNEL			ochran, Chie			
	ded for engineering comment		tached memora		Spot Check	ked		(Date)
M _ a	Addesignation number)				Signature Aviation Safet	y Agent)	, 	
18-54010-4	,		APR.	RECO	-		Fo	rm ACA-337 (4-52)



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.

Engine given major overhaul in accordance with manufacturer's specifications. All new rings, bearings and gaskets installed.

Engine run on test stand and functions according to specifications. See attached Engine Test Log and Parts List.

Attached:

Engine Test Log
Engine Parts List.

Mer 12 | 11 PM 154

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

ENGINE TEST LOG

			E N	AGINE	, TES	T LO	G				
Owner_	Spartan	Aircraft	Company	Engine	Make	P&W	Re	ason for	r Test Run	overhe	ıul
Date	March 11	. 1954		Series	R-985-AI	N-1-14B	To	tal Run-	≕in Time _	<u>4:45 t</u>	iours
Shop O	rder No.	33588	3	Mfg's.	No. P-22	25368					•
I						_					•
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Time	R.P.M.	Press.	Press.	Temp.	Temp.	Press.	Flow	Scale	#5	#1	#9
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2:00	1	20	75	77	95	4.0	25	40	257		<u> </u>
2:15		20	75	86	95	4.0	25	52	257		
2:30	T	22	78	86	104	4.0	50	64	275	 	<u> </u>
2:45	1200	22	78	104	113	4.0	50	72	275	 	<u> </u> '
3:00	1500	24	78	104	122	4.0	80	72	320		
3:15	1500	24	80	113	122	4.0	80	72	320	 	
3:30	1600	26	80	113	140	4.0	100	72	356		
3:45	1600	26	80	113	140	4.0	100	71	347		
4:00	1	26	80	113	140	4.0	100	71	347		
			OIL	SCRE		HECK				i	
11:45	800			WARI						ļ	
12:15	1	28	82	113	140	4.0	140	66	392	1	
12:30	1	29	82	122	149	4.0	140	66	392		
12:45	3	29	82	122	149	4.0	140	66	392		
1:00	1	29	82	122	149	4.0	140	66	392		-
1:15		32	82	131	158	4.0	215	63	374		†
1:30		32	82	131	158	4.0	215	1	383	ĺ	†
1:45	T	32	82	131	158	4.0	215	62	383		1
2:00		32	82	131	158	4.0	215	61	383		+
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					OK OD 1	by Ralf C	ochran	F	Final Chec	k byRalf	? Cochra
Prepare	ed for st	torage by						CHICAGO THE CONTRACTOR	±1	*	Particularies and CMC
OLL cor	nsumption	3.0	lbs. Hrs	. @ 1.950	R.M.	Oil May	35	lbs。	Min. @ 19	50 R.P.N	10
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ADITIM & RECORDS BRANCH W-300

SPARTAN AIRCRAFT COMPANY AVIATION SERVICE DIVISION MERCER COUNTY AIRPORT WEST TRENTON, N. J.

March 15, 1954

The following parts were used in the overhaul of Pratt and Whitney R-985-AN-1-14B Engine, Serial No. P-225368, Engine Shop Work Order 26103:

QUANTITY	PART NO.	NOMENCLATURE
l ea.	117	Thrust Bearing
l ea.	3303	Cam Drive Gear
l ea.	39292	Push Rod Tube
4 ea.	45943	Tappet
l ea.	39980	Cylinder Head Baffle
l ea.	16512	Vertical Drive Gear - Long
l ea.	2715	Vertical Drive Gear - Short
l ea.	109	Spacer
l ea.	5999	Tappet Roller
6 ea.	10486	Circlet - Intake Valve
3 ea.	29410	Circlet - Exhaust Valve
1 ea.	47518	Cylinder.

RECEIVED

流形 12 1 11 11 11 154 APLIN, ERSCONDSBALLON V=300

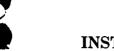




Form approved. Budget Bureau No. 41-R052.4.

TERATION FORM (AIDERAME DOWERD) ANT PROPELLED OF ARRUMANCES

IULAW	א אבר	AIK AND ALIEKAII(א רטאואו (AIRFRANIE, PU	WERPLANT, PROPELL	בה טא.	APPLIANCE)
1. AIRCRAFT	MAKE	GRUMMAN		ODEL	SERIAL NO.		LITY AND REGISTRATION MARK
		First, middle, last)	(je	-21 A	DRESS (Street and number, city, zon	e and State	606
2. OWNER	S	tate of New York onservation Dept.)	ADI	Arcade Bldg., Albany, New York	•	
3. COMPLET CORDAN	CE WIT	Y FOR UNIT REPAIRE TH CIVIL AERONAUTIC	ED AND/OR A	ALTERED. DESCI 8.	RIBE WORK ACCOMPLIS	O DAHE	N REVERSE IN AC-
		•				NAT	URE OF WORK (Check)
TINU		MAKE		MODEL	SERIAL NO.	MAJOR RE	PAIR MAJOR ALTERATION
a. AIRFRAME		***************************************	(As described in item 1 above)				
b. POWERPLAN	г						
c. PROPELLER	На	amilton Std	2D30-2	235	103922	x	
		TYPE AND MANUFACTURER	OTOTA	-10	T32601	,	
d. APPLIANCE					Т32602		
*AFT	ER the r	GHT AND BALANCE DA epairs and/or alterations d below were made.	case of	a spare component in an aircraft. At	eted by repair or alteration, it will not be completed this time, it will be completed.	until su	ch component is in-
CATEGORY	,	EMPTY WEIGHT (Por	unds)*	EMPTY CENTER	OF GRAVITY (Inches from datum)*		USEFUL LOAD (Pounds)*
Stonda	ndard 6412		21,68	in.	1588		
5. CONFOR	MITY S	STATEMENT (Complete and	check)				
a. AGENCY'S NA	IE AND A	DDRESS		b. KIND OF AGENCY		c. CER	TIFICATE NO.
Pester's Propeller Service 258 Herricks Road Minecla, New York			☐ U. S. Certificated Mechanic. ☐ Foreign Certificated Mechanic. ☐ **Certificated Repair Station. ☐ Manufacturer. ☐ (Check if repair or alteration was made under delegation option procedures.)			182	
d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U. S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge.) 3/29/54							
(Date rer	air and/o	or alteration completed)		21.00	(Signature of authorized in	dividual)	
6. APPROVA	L FOR	RETURN TO SERVICE	•	••••	as inspected in the manne	r prescri	bed by the Adminis-
APPROVED BY CAA Designee							
	3/29/54 (Date of approval or rejection) (Signature of authorized individual; title or identification number)						tion number)
			20011177		TO OF BEVEROLIZOU INCIVICUAL, INCIO O	. Idonounca	
		TED ONLY BY CAA PER engineering comment	•	tached memorandu	ım		
Accepte	_	7-6-54 (Date)	Reinspected		Spot Check	xed	(Date)
V 1 (C)	A design	nation number)	, n	(a)	(Signature Aviation Safety	Agent)	<u></u>
16-54010-4	,	.,	A	PR 7 RECO	(~-B-more at Attendar parent		Form ACA-337 (4-52)





This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, 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 CAA 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.

Propeller was overhauled in accordance with manufacturers specifications and CAA regulations. All steel parts were magnetically inspected. Exterior steel parts were cadmium plated.

Range 26° Hi 26° Lo 11°

AFR 12 | II PM 354

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

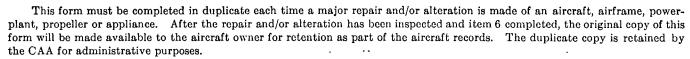




Form approved. Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

וטכאוזו	\ I\LI	AIN AND ALIENAIN) 11111011 110	AINI NAME, I	UNENI ENITI, I NOI I		JIL ALI	LIANUL)
1. AIRCRAFT	MAKE G	rumman	МС	G-21 A	SERIAL NO. 1152		ONALITY AN	D REGISTRATION MARK
2. OWNER	NAME (First, middle, last) State of New York Conservation Dept. ADDRESS (Street and number, city, zone and State) Arcade Bldg., Albany, New York							
3. COMPLET CORDAN	CE WIT	Y FOR UNIT REPAIR! H CIVIL AERONAUTIC	ED AND/OR / S MANUAL 1	ALTERED. DESC 8.	CRIBE WORK ACCOME	LISHED	ON RE	VERSE IN AC-
· UNIT		MAKE		MODEL	· SERIAL NO.		NATURE OF	WORK (Check)
- UNIT		MANE	<u> </u>	MODEL	· SERIAL NO.	OLAM	R REPAIR	MAJOR ALTERATION
a. AIRFRAME		***************************************	♦ (As described	in item I above) 🎮				
b. POWERPLAN	r							
c. PROPELLER	H	lamilton Std	2D30-2 6101A-		104031 T18119	Х		
		TYPE-AND MANUFACTURER			T18120			
d. APPLIANCE								
*AFT	ER the re	GHT AND BALANCE DA epairs and/or alterations d below were made.	case of a	a spare componer n an aircraft. A	pleted by repair or alternate, it will not be complete this time, it will be con	ted until	l such co	
CATEGORY	<u></u>	EMPTY WEIGHT (P_0	unds)*	EMPTY CENTE	ER OF GRAVITY (Inches from data	m)*	USEFI	JL LOAD (Pounds)*
Standar	d	6412		21.	.68 in	3 in 1588		588
5. CONFOR	MITY S	TATEMENT (Complete and	check)		······································		1	
a. AGENCY'S NA	E AND A	DDRESS		b. KIND OF AGENC	Y	c.	CERTIFICAT	E NO.
Pester's Propeller 3 ervice 258 HerricksRoad Nineola, New York U. S. Certificated Mechanic. Foreign Certificated Mechanic. Manufacturer. (Check if repair or alteration was made under delegation option procedures.)					B 2			
d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U. S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge 3/29/54 (Date repair and/or alteration completed) (Signature of authorized individual)								
6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items) Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is								
APPROVED BY CAA Designee Manufacturer Canadian Department of Transport Inspector of Aircraft CAA Aviation Monufacturer Other (Specify) Safety Agent								
(Date of approval or rejection) (Signature of authorized individual; title or identification number)								
7. TO BE COMPLETED ONLY BY CAA PERSONNEL								
a. Forwarded for engineering comment See attached memorandum b. Accepted Spot Checked Spot Checked (Date) CAA doorgnation number) Significant Aviation Safety Agent)								



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.*

Propeller overhauled in accordance with manufacturers specifications and CAA regulations. All steel parts were magnetically inspected. Exterior steel parts were cadmium plated.

Range 26° H1 26° Lo 11°

RECEIVED APR 12 | 11 PM "54 ADHIN. & RECORDS BRANCH

*If additional space is needed attach additional she	ets bearing aircraft nationality	y and registration mark and	date work completed.
a			

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form approved. Budget Bureau No. 41-R052.3.

	REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)								
	(SE	E REVERSE	SIDE	OF THIS FOR	RM FOR I	NSTRUCTION	VS)		
1. AIRCRAFT MAKE			MODEL	SE	ERIAL NO.	i		D REGISTRATION MARK	
I. Amon	GRUMMAN			G-21A		<i>1152</i>	STAR	IDARD	N606
	NAME (First, middle, last)			ADDRESS (Street	and number, cit	ty, zone, and State)			i
2. OWNER	STATE OF NI	ew York	'	ARC.	ADE BU	ILDING			
	CONSERVATIO	ON DEPT	•	ALB.	ANY N	EW YORK			
2 EII IN I	NFORMATION IN TH	'S ITEM ON	V FOI	THE HINT RE	PAIRED AT	UD/OR ALTER	FD.		
3. FILL 111.	NFORMATION IN III	15 11 Livi Civ	.1 10.	· ·	EMINES CO.	VD/OR ALILLI		TURE OF	WORK (Check)
UNIT	MAKE			MODEL	1	SERIAL NO.	I	OR REPAIR	MAJOR ALTERATION
	. ;						_		
a. AIRCRAF	· · · · · · · · · · · · · · · · · · ·	20000000 (As i	describe	ed in item 1 above)	*******	***********		XX	
b. PROPELLER BLADE OR							-		
HUB									
c. ENGINE									
	AND MANUEA					-	_		
d. INSTRUMENT	TYPE AND MANUFA	- CTURER	•	•			`	.]	
d. INSTRUMENT	•			•					
4. AIRCRAFT		ML is it on		* · · · · · · · · · · · · · · · · · · ·		**************************************		<u> </u>	
		of a spare	e comp	be completed by bonent, it will not	t be complete	ed until such co	mponent	is installed	d in an
WEIGHT AND	BALANCE DATA	aircraft.	At th	nis time, it will b	e completed	l by the install	ing agen	cy, if appl	icable.
-		TY WEIGHT (Pour	nds)*	EMPTY CENTER	OF GRAVITY	(Inches from datum)	•	USEFUL	LOAD (Pounds)*
	pairs and/or alterations	mputed	9						
described b	elow were made.	. // .		1 / /	21.68	1-4		15	88 16s
		6412 1	DS.		~/ . 00			10	80 1/2
5. KIND OF	AGENCY WHICH MA	DE REPAIRS	AND/C	OR ALTERATIO					
☐ MAN	NUFACTURER A	APPROVED REP.	'AIR ST	ATION NO	115		□ c	ERTIFIED	MECHANIC
					(Specify	-, ,			
	NAME			RESS (Street and nu				DATE WORK	ACCOMPLISHED
6. AGENCY	AERO TRADE	ES, INC		C ARTHUI					4057
	HUNKUNKUMA L. 1.W.Y. MARCH 21,1905								
7. DESCRIPTION OF WORK (ALL WORK MUST BE ACCOMPLISHED IN ACCORDANCE WITH PART 18 OF THE CIVIL AIR REGULATIONS AND ITS ASSOCIATED CIVIL AERONAUTICS MANUAL 18.)									
	· '		•			.•			
	LLED RECOVER								
INSTAL	LLED COMPLET	ELY OVE	ERHA	ULED LAN	VDING (GEAR, TA	lîl w	HEEL	ASSY,
ANZ	O ALL GEAR E	OXES.		•					!
REMOVE	ED ORIGINAL	AIRCRAI	FT h	IRING AM	ID REQ.	INSTALLE	D NE	W WIR	ING.
INSTAL	LED INSTRUM	IENT PAI	VEL	AND INST	RUMEN!	TS ON CO	-PIL	OTS S	IDE.
1000 E	IR. INSPECTI							•	1
INSTAL	LED DUAL VA	CUUM SI	YS TE	em.		Æ	n KOT ne	74	!
INSTAL	LED OVERHAU	LED OII	LIN	MBRSION	HEATEI	RS. AL	M I WAN	Ľ5	(cont)
If more space is needed, continue on reverse, or attach separate sheets bearing aircraft registration mark. MacARTHUR AIRPORT									
FORWARDED FOR RONKONKOMA, L. 1., N. Y.									
APPROVAL I CERTIFY that the above statements are true and correct to the best of my knowledge.									
1 CERTIFI OF	iat the above blacemen		^	00 00 010 0000 00	M.j	agy.	•	-	
PAUL	NYHOLH-Paw	& Kisho	ha	A&E	16576	P	IARCH	21.	1.953
	(Signature of supervising med	chanic)		(Certifi	lcate number an			(I	Date)
		TO BE C	OMPL	ETED BY CAA	REPRESE	NTATIVES			
	DESIGNEE'S SIGN	ATURE	^			NO.	+5	DATE	
APPROV	ED Yau	l Kylis	How)	DAM	1 153	//	leich.	21,1953
REJEGT	ED CAA AGENT SIGN	MURE	-	~		ACCEPTE		Y . L	· (2

- This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine,
- 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 to service 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.

 The manufacturer of an aircraft, engine, propeller, or instrument, and a certificated repair station holding the appropriate.
- I. 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 CAA 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.

warded to the nearest CAA district office or CAA agent.

DESTADGED TELL VAD HIGHL BYOBETIE Y DONES'

BEPAINTED COCKPIT ASPEN GREEN

- 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 sircraft
- 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.
- For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

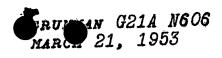
 Mechanic—Submit to CAA representative for inspection and approval. When approved, retain both copies of the form with the component until installation on an aircraft. At this time Items 1, 2, and 4 must be completed by the installing agency who will distribute the forms as follows: (No further approval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

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.

10-24010-2 0. 8. GOVERNMENT PRINTING OFFICE

Datax green no. 32-046 DATA ZAIRI BED WAREHR--BULUX YELLOW NOBBHK YN INSIGNIV BED DOBE' MOUBHX SLINSON GHEEN DOBE NOUBHX COB KETTOM NO. 12 DOBE. PÈBVINIED SECIIONS OL VIPCEVEI MHEFE NECESSVEK* HEBUVCED CYBIN MELVU LUOOH. REPAIRED ALL CONLING WHERE NECESSARKY REPLACED ELEVATOR AND RUDDER TAR ACTUATORS HEBVILED COLHODED MEMBER ANDER VAC. FUEL TANK. INSLYTTED NEW VET KEET SECTION. ADJUSTED AUX. FUEL TANK CAUCE. PEBLACED LEFT AN D RICHT ENCINE SHUT-OFF WALVELS. INSLYPPED BONG LXBE EXHYDSI HYNIEOPD YND INLENSIEIEH LDBE* INSLYTTED ONE INCH LITTEH AENL ON VAR* LAET LVNK* *SJHDIT BTECICTYSS CORERS ORE WING NVAICVION TICHTS INSIVITED SIBEVATINE CADS OVER FLOAT WIRE FITTINGS ON WINGS. INSIVTTED HEVDING TICHI OAEH TELI EMD. GVBIN SEVI. BE-INEOHCED VEL CYBIN EFOOR BULKHEYDS. CHYNGED OIT TELL VND EIGHL ENGINES*

C.A.A. C.G. RADE 20.5 TD 33.0 DATUM - LEADING EDSE OF WING AT FUSELAGE



ITEM	WT.	ARM	MOMENT
OLD COMPUTED TAKEN FROM 337 DATED 2/15/51	6380.24	21.72	138,588.33
ADDED NEW EXHAUST	32.	14.00	448.
	6412.24	21.68	139036.33

NEW EMPTY WEIGHT 6412 LBS.
EMPTY C.G. 21.68 IN.
USEFUL LOAD 8000 -6412 = 1588 LBS.

EHART DATUM ITEM	IS CENTROIL	OF NOSE BAGGA	GE COMPT. 65"	FORWARD OF C.A.
EMPTY WEIGHT		6412	86.68	<i>555</i> .7 9
PILOT		170	60.	10.2
OIL (15 GAL)		113	73.	8.25
		6695		574.24

NEW BASIC WEIGHT 6695 LBS.

UNITS 574.24

Paul 16576

Att 16576

March 21, 1953

March 21, 1953

RECEIVED
APR 21 12 03 PM *53
ADMIN. & RECORDS BRANCH

Form approved. Budget Bureau No. 41-R052.4.

MAJUI	K KEP	AIR AND ALIEKAII	JN FUKM (AIRFRAME, P	OWER	PLANI, PROPELI	LEKU	K APP	LIANCE)
1. AIRCRAFT	MAKE	Trumman		G-2/A		SERIAL NO. //52	tan	dard.	D REGISTRATION MARK N606
2. OWNER	NAME	eto of New eto of New Inservation	Jorh Dept.		Cer	street and number, gity, zon sa cle Beeel Elbany, t			
3. COMPLET CORDAN	CE WIT	Y FOR UNIT REPAIRE TH CIVIL AERONAUTIC	ED AND/OR A S MANUAL 1	ALTERED. DES 8.	CRIBE	WORK ACOOMPLIS	SHE'D (ON REV	VERSE IN AC-
UŅIT		MAKE		MODEL		SERIAL NO.		ATURE OF	WORK (Check) MAJOR ALTERATION
a. AIRFRAME		***************************************	• (As described)	in item I above) 🖊	·····	••••••			
b. POWERPLANT	r								
c. PROPELLER		Hamilton	2 D30-	-235	1	.03922			
d. APPLIANCE		TYPE AND MANUFACTURER							
*AFT	ER the r	GHT AND BALANCE DA cpairs and/or alterations d below were made.	case of a	a spare compone n an aircraft. A	nt, it wi	by repair or alteration ill not be completed ime, it will be compl	d until s	such co	
CATEGORY	′	EMPTY WEIGHT (Por	unds)*	EMPTY CENT	ER OF GRA	VITY (Inches from datum)*		USEFL	UL, LOAD (Pounds)*
		6412 1bs	,	21	1.68	in.		/3	588 /bs.
5. CONFORT		DDRESS	check)	b. KIND OF AGEN			<u> </u>	ERTIFICATI	E NO
258 He	rric	Propeller Serv eks Road New York	ice,Inc.	Foreign (Certificat ted Repa turer. Check if	ted Mechanic. air Station. repair or alteratio under delegation or		32	
attachmer	nts here nation f	e repair and/or alteratio eto have been made in ac furnished herein is true a	cordance with	n the requiremen	its of Pai	rt 18 of the U.S.C.	ivil Air	Regula	itions and that
		r alteration completed)		A. W.H	4 Con	(Signature of authorized in		35861	.6
	to the a	RETURN TO SERVICE authority specified below				pected in the manne	er presc	ribed b	y the Adminis-
Ä AF □ RE	PROVI	$\left\{ egin{array}{l} \Box \ D \end{array} ight\}$ BY $\left\{ egin{array}{l} \Box \ CAA \ Avis \ Safety \ Ago \end{array} ight.$	gnee	nufacturer pair Station		ian Department of T (Specify)	'ranspoi	rt Inspe	ctor of Aircraft
3-9-5		val or rejection)		S. Sign	Me Co.	thorized individual; title o		35861	
		TED ONLY BY CAA PER	RSONNEL						
b. DAccepte	ed <u>4</u> 57 9	engineering comment (Date) (Date)	☐ See at] Reinspected.	(Date	Joh	Spot Check		((Date)

INSTRUCTIONS



This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, 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 CAA 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.

This propeller was not overhauled. Replaced cylinder micartaliner and replaced spider ring and all seals. Propeller was 'lubricated and balanced.

Index: 26°, high 26°, low 11°.

RECEIVED APR 21 12 03 PH 15, admin. & records brand

•If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE

AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS

Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

1.	TYPE OF APPLICATION (Check which)					
	a. ORIGINAL ISSUANCE OF CERTIFICATE	•	d. RECERTIFICATION U	INDER THE PROVISI	ONS OF CAR 8	
	b. ANNUAL INSPECTION FOR RENEWAL OF	CERTIFICATE	e. MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8			
	c. AMENDMENT OR MODIFICATION OF CUR	RENT CERTIFICATE	f. 🗌			
2.	AIRWORTHINESS CLASSIFICATION It is requested that the Certificate of A worthiness classification(s):			n of the aircraft	in the following air-	
	_	TO TOANCOOR CATECO				
	B. T LIMITED (SEE CAR 9)	TC, TRANSPURI CATEGO	JRIES)			
	b. LIMITED (SEE CAR 9) c. RESTRICTED (SEE CAR 8)			•		
	(Check the restricted special purpose operation)	(s) to be conducted)				
	☐ AGRICULTURAL AND PEST CONTR		☐ PATROLLING			
	AERIAL ADVERTISING		☐ FOREST AND WILDL	IFE CONSERVATION		
	☐ AERIAL SURVEYING	•	WEATHER CONTROL			
	GLIDER TOWING		OTHER			
	d. T EXPERIMENTAL					
	(Check the type of experimental operation(s) to	be conducted)	_			
	RESEARCH AND DEVELOPMENT		RACING			
	AMATEUR-BUILT		EXHIBITION			
	DEMONSTRATION		OTHER			
3.	AIRCRAFT IDENTIFICATION (Complete	e all items)				
_	a. AIRCRAFT MAKE	b. AIRCRAFT MODEL		c. AIRCRAFI SFRI	AL NO.	
		a 04 /			1450	
G	RUMMAN	G 21 A			1152	
	d. ENGINE MAKE		e. ENGINE MODEL			
	d. ENGINE MAKE PRATT & WHITNEY			AN -14B		
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U. S. DEPARTMENT OF COMMERCE

CIVIL AERONAUTICS ADMINISTRATION

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	DESIGNATURE DESIGNATION NO. DATE
YHTS	I HAVE INSPECTED THE RIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT (Check appropriate item)
	6. CAA REPRESENTATIVE CERTIFICATION
(DATE)	(REPAIR STATION AUTHORIZED SIGNATURE)
	хнтяомяла <u> </u>
	No. by CAR 52 and was found to be:
noitsta repair station	The aircraft described on the reverse has been inspected under the authority accorded cert
······································	5. CAA APPROVED REPAIR STATION CERTIFICATION
	BPAUL WYHOLM (DATE) (DESIGNING REPRESENTATIVE) (DESIGNATION NO.)
	8. X PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE JANUARY O 1967E)
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rc i	A. AIRWORTHINESS DOCOMENTS ISSUED OR REVIEWED a. DOERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED) b. C. CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT d. C. CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT d. C. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS e. M. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS f. M. CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE 1. M. CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE
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JAN 30	b. ▼ РЕВІОВІС АІВСВАГТ ІИЅРЕСТІОИ ВЕРОЯТ, ГОВМ АСА-319, WAS RETURNED TO OWNER
4 5	3 BY MECHANIC, CERTIFICATE NO. ACE 55
	■ BY APPROVED REPAIR STATION, CERTIFICATE NO.
	(DATE) BY AIRCRAFT MANUFACTURER
	a. LAST AIRWORTHINESS INSPECTION CONDUCTED JAN 14
	3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319)
	зевіас ио. Тотас ноивз
	SERIAL NO. TOTAL HOURS
	SERIAL NO. 2017/1/1 TOTAL HOURS 6.96.30
	SERIAL NO. 8181 TOTAL HOURS
	d. 🔯 ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:
RS	C. THE RIPCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 2/81 • 20 HOL
	b. ▲ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
•	A. B. AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
	2. AIRCRAFT AND ENGINE OPERATING RECORDS
	d. ☐ CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)
	$L=\Sigma G$ от
	b. W ringraph Listing page no.
	1. AIRCRAFT AND ENGINE CERTIFICATION BASIS 8. A RICRAFT SPECIFICATION NO. 604 THROUGH SHEET REVISION NO.
orm to the following:	The sircraft described in Item 3 on the reverse of this form has been inspected and found to conf (Check and complete applicable items)
(1	(To de completed by a CAA representative or approved repair statio
·	AIRCRAFT INSPECTION REPORT

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FORM ACA-905 (8-26-47)			MENT OF COM		BUD		APPROVED U NO. 41-R041.3
APPLICATION FOR AIR	WARTHE	NESS CERTI	FICATE AND	/np		LNCTO	UCTIONS
ANNUAL INSP						it this f	UCTIONS orm to the Civil Aero- i Field Representative.
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MAKE Grumman				MODEL	G	-21A	·.
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MA KE			· · · · · · · · · · · · · · · · · · ·	MODEL			
Pratt & Watney					R985 -AN-	-6 B	
OWNER'S NAME							ber, City, Zone and
State of New York	Cons	ervation	Dept.	State)		Ircade B	<u> </u>
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FORM ACA-305a (FORMERLY ACA-3 (To be complet	ed by	a CAA ins		designate	d inspector		•
IT HAS BEEN DETERMINED THAT	THE AIR	CRAFT DESCR	RIBED IN 305	ABOVE IS I	N CONFORMITY	WITH THE F	OLLOWING
ALL APPLICABLE MANDATORY NOT	ES, INS	TRUMENT MAI	RKINGS AND I	PLACARDING R	EQUIREMENTS	HAVE BEEN (OMPLIED
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MEMORANDUM

Re. Data Filed in General Blue Print File

Aircraft Registration No.

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION



Form Approved. Budget Bureau No. 41-R052.2.

-	MAKE	(SEE REVE			FOR INSTRUCTIONS SERIAL NO.		TAN	DARD ND REGISTRATION MARK
1. AIRCRAFT	Grumman			G21A	1152	NAII	N606	
	NAME (First, midd	le, last)		ADDRESS (Street and nu		<u>!</u>	11000	
2. OWNER	State of I Conservat				e Building y, New York			
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UNIT	. ма	KE		MODEL	SERIAL NO.	NAT	URE O	F WORK (Check)
						MAJOR	REPAIR	MAJOR ALTERATION
. AIRCRAF	T	••••••	⋈ (As describe	ed in item 1 above) 👭	***************************************			
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. ENGINE								
	TYPE AND MA	NUFACTURED		<u></u>				
INSTRUMENT								
I. AIRCRAFT	D BALANCE DATA	of a	a spare comp	onent, it will not be co	air or alteration agency. Sompleted until such completed by the installing	onent is	installe	d in an
WEIGHT AND	DALANCE DATA	EMPTY WEIGHT	T (Pounds)*	EMPTY CENTER OF GR	RAVITY (Inches from datum)*		USEFUL	LOAD (Pounds)*
_	pairs and/or alterations below were made.	Previou	ıs 6380	21.72			נ	L620
		<u></u>		<u> </u>				
_			•	R ALTERATIONS (C	heck)	_		
☐ MAN	NUFACTURER	APPROVE	D REPAIR ST.	ATION NO.	(9-146)	CEF	RTIFIED	MECHANIC
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	NAME		ADDR	RESS (Street and number, ci		D/	ATE WORK	K ACCOMPLISHED
6. AGENCY		ero Repa		•				K ACCOMPLISHED
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Pro 18 Bla ad just Pro If more space FORWARDE FORWARDE FORWARDE APPROVAL	Spartan A PTION OF WORK Opeller co ades insta ted, prope opeller jn is needed, continue D FOR NG pat the above stat (Signature of supervise)	(ALL WORK I AND ITS ASSIMPLE TELL IN AND ITS A	MUST BE ACCOMPLED GIVE ACCOMPLED GIV	O Raighn Ave COMPLISHED IN ACCO IL AERONAUTICS MAN mbled. 6167A es ser. nos. and greased. grees, Low 1 change to the best of my k (Certificate full (Certificate full)	conden, H. Camden, H.	move 0. B ring 1s	d and lade s in 26.0	5-52 R REGULATIONS d GlOIA- torque stalled.
Pro 18 Bla ad just Pro If more space FORWARDE APPROVAL I CERTIFY II	Spartan A PTION OF WORK Opeller co ades insta ted, prope peller jn is needed, continue D FOR NG pat the above stat (Signature of supervise (ED)	(ALL WORK AND ITS ASSIMPLE TO I	MUST BE ACCOMPLED GIVE ACCOMPLED GIV	O Maighn Ave COMPLISHED IN ACCOUNT AC	conden, H. Canden, H.	move 0. B ring 1s:	1-1. CIVIL AI d and lade s in: 26.0	5-52 R REGULATIONS d G101A- torque stalled.

INSTRUCTIONS

- 1. This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine.

 2. When repairs and/or alterations are made which affects the operation limitations set forth in the Airplane Flight Manual or ized representative of the CAA.

 3. Certificated mechanics must, in all cases, obtain approval of the repair and a certificated repair stricle to service.

 4. The manufacturer of an aircraft, engine, propeller, or instrument as certificated repair station holding the appropriate rating may return the article to service without prior approval of the properties.

 4. The manufacturer of an aircraft, engine, propeller, or instrument as certificated repair station holding the alteration limitations.

 5. Repair agencies will be guided as follows when completing this form.

 5. Repair agencies will be guided as follows when completing this form.
- 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 aircraft 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 seation.
- agent prior to returning article to service.

 For a Component Installed in an Aircraft—Complete Items I, Z, 3 (b, c, or d, whichever is applicable), 4, 5, 6, and 7.

 Distribute copies as in a above.
- Ther a Spare Component—Complete-Items 3-(b; c,-or d, whichever is applicable), 5, 6, and V.

 Mechanic—Submit to CAA 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 CAA is required, only a log-book entry by the installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy for-

warded to the nearest CAA district office or CAA 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.

16-54010-2 U. S. GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form Approved. Budget Bureau No. 41-R052.2.

	REPAIR AND	ALTERATION	N FORM (A	IRCRAFT, PROF	ELLERS, ENGINES, I	NSTRU	MENTS)
		(SEE REVER			FOR INSTRUCTIONS)		ANDARD
1. AIRCRAFT	Grumman Grumman	7	M	G-21A	SERIAL NO.	NATION	606 AND REGISTRATION MARK
2. OWNER		ile, last) New Yor Ation Dep	k	Arcade	umber, city, zone, and State) Building Now York		
3. FILL IN I	NFORMATION	IN THIS ITEM	ONLY FOR	THE UNIT REPAIR	RED AND/OR ALTERED		
UNIT	МА	AKE	1	MODEL	SERIAL NO.	MAJOR RE	RE OF WORK (Check) PAIR MAJOR ALTERATION
a. AIRCRAF	Т мммм	••••••	(As described	in item I above) 🎶	***************************************		
b. PROPELLER BLADE OR HUB	Hamilton	n Standar	d 2D3	10-235	103922	-	X
c. ENGINE							
INSTRUMENT		ANUFACTURER					
4. AIRCRAFT		This	item must b	e completed by ren	air or alteration agency.	Howeve	r. in the case
WEIGHT AND	BALANCE DATA	of a aircr	spare comporant. At this	nent, it will not be c time, it will be con	ompleted until such composite of the composite of the installing	onent is ir agency, i	nstalled in an f applicable.
-	oairs and/or alterations				RAVITY (Inches from datum)*	۱	SEFUL LOAD (Pounds)*
	elow were made.	Previous		21.7			1620
	AGENCY WHIC	H MADE REPA	IRS AND/OR	ALTERATIONS (1		CERT	IFIED MECHANIC
	NAME			SS (Street and number, o	(Specify)	DATE	E WORK ACCOMPLISHED
6. AGENCY		ero Repai			. Camden, N.J.		1-15-52
blade juste	s install d, propel	ed. New l ler balan	blade So nced and	er Nos.T326 d greased.	PRDANCE WITH PART 18 C 12 blades remo 01 & T32602. I New Cwt. bear: 1s 11.0, High	lngs i	installed.
Pr	oberrer r	ndexed a					
			No we:	ight change			
If more space	is needed, continue	on reverse, or atta	ach separate sh	eets bearing aircraft re	egistration mark.		
FORWARDE ENGINEERII APPROVAL							
I CERTUFY th	nat the above sta	tements are true	e and correct	to the best of my	knowledge.		
Thom	(Signature of supervis	sing mechanic)	4	9983/(M) (Certificate p)	Milli Maling	·	/-/5-5-2 (Date)
	I projector		E COMPLE	FED BY CAA REI		DATI	
X APPROV	1	s signature	HGENE_M	GRACELY	No. 1735		-15-52
REJECT	ED CAA AGEN	NT SIGNATURE	1 elotu	look	PACCEPTED ☐ REINSPECTE	DATI	1/18/52
		(1	•				16-54010-2

INSTRUCTIONS

- . This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, enging 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 to service until the operation limitations have been corrected by an authorized representative of the CAA.
- ized representative of the CAA.

 S. Certificated mechanics must, in all cases, obtain approval of the regardly alteration from the CAA representative prior to returning the article to service.
- The manufacturer of an aircraft, engine, propeller, or inattending and a certificated repair station holding the appropriate rating may return the article to service without prior laping appropriate CAA representative, provided the alteration and/or repair does not change any of the operation limitations.
- Repair agencies will be guided as follows when completing this form.

CAA representative for inspection or approval.

- 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 aircraft
- 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.
- For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

 Mechanic—Submit to CAA representative for inspection and approval. When approved, retain both copies of the form
- installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy forwarded to the nearest CAA district office or CAA agent.

 Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to

with the component until installation on an aircraft. At this time Items I, 2, and 4 must be completed by the installing agency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the

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					A	
FORM AZA-905 (3-5-47)		MENT OF COM		BUD		APPROVED U NO. 41-R041.3
APPLICATION FOR AIRWORTH ANNUAL INSPECTIO			/OR		nit this	RUCTIONS form to the Civil Aero- on Field Representative.
APPLICATION (Check whether)	CAA IDENT	FICATION				
ORIGINAL AIRWORTHINESS CERTIF.			OTHER (Sp	eclfy)		
ANNUAL INSPECTION	□ NX	□ NL	RAFT			
MA KE		AIRC	W0051			
Grumman			(J		3-21-A	
	ACTURER'S SEI 1152	RIAL NO.	Oct.			654
		ENG	INE			***
Pratt & Whitney			MODEL -	R-985-AN-	- 6B	
OWNER'S NAME				ADDRESS (Stre	eet and nu	mber, City, Zone and
State of New York Conservation Depar	tment			Arcade Bui Albany 7,		rk
ATTACHMENTS (Check which)	· · · · · · · · · · · · · · · · · · ·	1 CERTIFY	THAT THE AB	OVE STATEMEN	TS ARE TRI	JE.
ACA-319 WEIGHT AND BALANC	E REPORT			state	0 K 10.7	Conservation Del
ACA-337 SPECIAL APPROVALS					tel	COPC
ACA-805 DATA, DRAWINGS, E		0/2	1 /53	71		THORIZED AGENT
ACA-317 UNAPPROVED DEVIAT	ION DATA	2/1	<u>4/51</u>			ITLE
FORM ACA-305a (FORMERLY ACA-307) (To be completed by	AlR y a CAA ins	CRAFT INSP	ECTION REF	ORT ed inspector	r or repr	esentative)
IT HAS BEEN DETERMINED THAT THE A	IRCRAFT DESC	RIBED IN 305	ABOVE IS I	IN CONFORMITY	WITH THE	FOLLOWING
ALL APPLICABLE MANDATORY NOTES, II WITH 🛣 YES 🗀 NO	NSTRUMENT MAI	RKINGS AND I	PLACARDING F	REQUIREMENTS	HAVE BEEN	COMPLIED
CAIRCRAFT SPECIFICATION - AIRWORT	HINESS DIREC	TIVE, NO(S).	- A	654 ADS	(SPECIFY	L-6
AUTHORITY FOR EXCEPTIONS (If any)		***************************************	•		(01201.)	
FORM ACA-1362, CERTIFICATE OF AIR	WORTHINESS,	ISSUED _	ORIGINAL	≥ AN	INUAL INSP	ECTION
Check whether) OPERATION LIMITATIONS FORM ACA						
APPROVED AIRPLANE FLIGHT MANUA	L IS IN THE		INGS			al
DESIGNEE'S SIGN	IATURE MÔ NO					DATE
AIRWORTHY ROVETIE	Colon	de		#158	88	2/14/51
UNAIRWORTHY CAA INSPECTOR'S	SICHATURE	7 20	Cler	ACCI	EPTED NSPECTED	DATE //6/5/
REASON FOR DISAPPROVAL, OR REMARKS other item Yes No)	(Indicate i	f you have	used the re			or
	Last Flo	wn Dec <i>e</i> mb	ner 19. 1	950.		
RICIGIO	1000 110	Wil Doom.	, or - , y -	.,,,,,		ا اسر
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CIVIL AEROHAUTICS ADMH.

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION



Form Approved. Budget Bureau No. 41-R052.2.

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

	WEI VIII WIAD			<u> </u>	OR INSTRUCTIONS)	1401111	- 141 F 14	
,	MAKE	OBE KEVE		OF THIS FORM F	SERIAL NO.	TAN	ONALITY A	ND REGISTRATION MARK
1. AIRCRAFT	GRUMMAN			6 21A	1152		600	5
	NAME (First, midd	le, last)		ADDRESS (Street and number, city, zone, and State)				
2. OWNER		New York	1	Arcade Building Albany 7, New York				
0 511 7 111								
3. FILL IN I	NFORMATION I	N THIS ITEM	ONLY FOR	THE UNIT REPAIR	ED AND/OR ALTERED	NAT	LIBE O	F WORK (Check)
UNIT	МА	KE .		MODEL	SERIAL NO.		REPAIR	MAJOR ALTERATION
a. AIRCRAF	T PARAGRA	*******	4 (As described	lin item 1 above) MAAA				
b. PROPELLER BLADE OR HUB				•				
c. ENGINE					·			
<u> </u>	TYPE AND MA	NUFACTURER						
d TRUMENT	r							
4. AIRCRAFT					ir or alteration agency.			
WEIGHT AND	BALANCE DATA	of a	spare compo raft. At this	nent, it will not be co s time, it will be com	mpleted until such compo pleted by the installing	nent is agency	installe , if app	ed in an licable.
		EMPTY WEIGHT	(Pounds)*	EMPTY CENTER OF GR	AVITY (Inches from datum)*		USEFUL	LOAD (Pounds)*
-	pairs and/or alterations below were made.		,					(n ()
		6380.2	4	21.7		•	10	619.76.
5. KIND OF	AGENCY WHICH	I MADE REPA	IRS AND/OF	R ALTERATIONS (C	seck)		·	
☐ MAN	NUFACTURER	APPROVED	REPAIR STA	TION NO.	(Specify)	CEF	RTIFIED	MECHANIC
	NAME			ESS (Street and number, ci		D/	TE WOR	K ACCOMPLISHED
6. AGENCY	Lawrence	J. Avenall	.	antic Aviation	_		2	-15-51
7. DESCRIP		(ALL WORK M	1UST BE ACC	erboro, New Jo	RDANČE WITH PART 18 O	F THE		
		AND ITS ASSO	CIATED CIVII	AERONAUTICS MAN	JAL 18.)			
	-	-	-		ck was installed			_
					screws and stop			
an	cuor edurbue	ent. Fuct	osec pno	t snows instal	lation of radios	and	rack	•
	•			•	•	٠		
Ĺ							^	/
						\mathcal{N}	···	
If more snace	is needed. continue	on reverse, or att	ach separate si	reets bearing aircraft re	istration mark.			
FORWARDE	·							
ENGINEERII APPROVAL	NG							
I CERTIFY th	nat the above stat	ements are tru	e and correct	t to the best of my k	nowledge.			
		Paris O C	9				a /= :	٠ اماء
/ course	(Signature of supervisi	ing mechanic)		A & E 17960 (Certificate num	17 inber and rating)		_2/1	Date)
		то в	E COMPLE	TED BY CAA REP	RESENTATIVES			
	DESIGNEE	'S SIGNATURE	· ()	1	NO.	DA	TE	
APPROV	ED B	bent for	l Sca	ndle	#1588		2/1	5/51
REJECT	ED CAA AGEN	T SIGNATURE	1/8		ACCEPTED	DA	55/つ	8/5/
		100	er)	1. Crolle	REINSPECTE	10 0K	10	0///
EW.						/		16—54010-2

INSTRUCTIONS

- 1. This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine,
- 2. When repairs and/or alterations are imade which affect the operation limitations set forth in the Airplane Flight Manual or Form ACA-309, the aircraft shall mostly returned to service until the operation limitations have been corrected by an authorized representative of the corrected by an authorized representative of the repair and/or alteration from the CAA representative prior to returning the article to service of 30 flips.

 4. The manufacturer of the article to service whithout prior appropriate of an authorized CAA representative propriate and a certificated repair station holding the appropriate of the manufacturer of the article to service without prior appropriate of the manufacturer of the article to service without prior approved of an authorized CAA representative provided the alticle to service without prior approved of an authorized CAA representative provided the alticle to service which we have return the contraction of the article to service which we have return the article to service which without prior approved of the article and the article to service which we have the contraction of the article and the article and the contraction of the article and the article are all the article and the article are all the article and the article are all the article and the article are article are article and the article are article are article and the article are article and the article are article are article and the article are article are article and the article are are article - rating may return the article to gervice without prior approval of an authorized CAA representative, provided the alteration and or repair does not change approved limitations.
- 5. Repair agencies will be guided as follows when completing this form.
- approval, the CAA representative will return the original copy to the mechanic who should submit it to the aircraft Mechanic—Submit to CAA representative for inspection and approval prior to returning the article to service. Upon For an Aircraft Repair and/or Alteration—Complete Items 1, 2, 3a, 4, 5, 6, and 7.
- For a Component Installed in an Aircraft—Complete Items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, 6, and 7. agent prior to returning article to service. Manufacturer or Approved Repair Station-Submit original to sircraft owner, forward copy to CAA district office or CAA
- agency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the with the component until installation on an aircraft. At this time Items I, 2, and 4 must be completed by the installing Mechanic-Submit to CAA representative for inspection and approval. When approved, retain both copies of the form For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7. Distribute copies as in a above.

Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to warded to the nearest CAA district office or CAA agent.

installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy for-

haffatari tramoruo3 16-54010-2 A U.S. GOVERNMENT PRINTING OFFICE CAA representative for inspection or approval.

0°9T -	8 -	2.0	Range Filter
0.5 -	· S -	9*	Co-Hlot lack Box
0.5 -	Ś -	9*	Erjot 1sck Box
- 15°0	ς - ςτ -	ģ•	Audio Selector Switches & Cables
		,	Equipment Removed
- 255*8	£9 -	ۥ8	Aircraft Radio Corp. F-ll Isolation Amplifier & Mount
4.07£ -	89 -	7Š*8	Atlantic Aviation Corp. Radio Rack
2°75E -	LL -	9.17	Atlantic Aviation Corp. Junction Box
- 56 • L.	- 55	Z•T	Atlantic Aviation Corp. Audio Selector Box (Co-Filot)
π•9 2 −	- 55	T°S	Atlantic Aviation Corp. Audio Selector Box (Filot)
- 75°8	- 35	η• .	Atlantic Aviation Corp. Transmitter Selector Box
ካ•ረፒ -	- 58	9•	Aircraft Radio Corp. C-20 Control Omni
ካ• ረ ፒ –	- 58	9•	Aircraft Radio Corp. C-20 Control VHF
· 087 -	·09 -	0.8	Electrical Cables
- 720.0	zī –	JO*0	United Transformer Co. Range Filters NAF-68304
- TTS:35	- 25	5°19	Atroraft Radio Corp. Mechanical Linkage
0,075 -	841 -	5.5	Canfield Mfg. Co. AM-104B Antenna
7. EOI -	ΔT -	T*9	Aircraft Radio Corp. A-13 Antenna & Mount
7.95 -	EE =	L.I	Aircraft Radio Corp. Course Selector
ካ•65 -	EE -	9°T	rereit Radio Corp. Cross Point Meter
- 17.92	- 35	95.	Aircraft Radio Corp. To-From Meter
55°06E -	EL -	56.5	Aircraft Radio Corp. F-lo Filter Amplifier Unit & Mount
2.78E -	- 95	6.25	Aircraft Radio Corp. B-10 Converter
E9°875 -	5.99 -	8.25	Aircraft Radio Corp. R-13A Receiver & Dynamotor
50.612	59 -	TE.E	Aircraft Radio Corp. E-13A Rack & Mount
8:44S -	27 –	7.5	Aircraft Radio Corp. T-llA #3 Transmitter & Moun:
8.72S -	19:-	η•Ε	Aircraft Radio Corp. T-11A #2 Transmitter & Mount
9°072 -	- 95	η•ε	Aircraft Radio Corp. T-llA #1 Transmitter & Mount
9°175 -	- 62	€.8	Atroraft Radio Corp. R-15 Receiver with mount
Juditom	OF STATE	• 1 14	Equipment installed

Total Wt. & Moment Added Old Empty Wt. & Moment

New Empty Wt., C.G. and Moment

Wt. Arm Moment
- 6,063.37
- 144,651.70

6,380.24

21.72

-138,588.33

C. G. Range -20.5 to 33.0
Datum Leading Edge of Wing at Fuselage

Chart Datum is Centroid of Nose Baggage Compartment 65° Forward of C.A.A. Datum

Basic Loading*

Item	Wt.	Λrm	Units
Empty Wt.	6,380.24	86.72	553-29
Pilot	170.0	60.00	10.2
Oil 15Gal.	113.0	73•	. 8 • 25
Total Wt. & Units	6,663.24		571.74

*New Basic loading chart to be used with original loading schedule when loading aircraft.

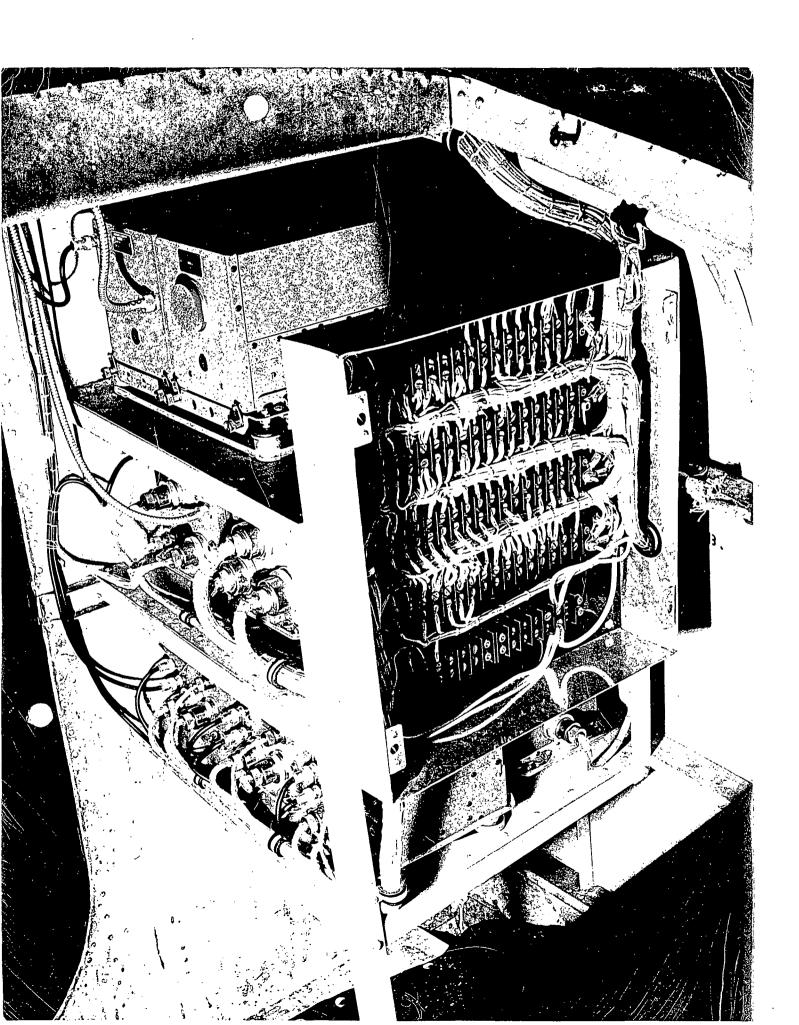
Max. Gross 8,000.00 Empty Wt. 6,380.24 Useful Load 1,619.76

Rattel Scandle DAM 1#1588

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Budget Bureau No. 41-R052.1. Approval expires December 31, 1948.

REP	AIR AND AL	TERATIO	N FORM	(AIRCRAFT,	PROPEL	LERS, E	NGINES	, INSTRU	MENTS)
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, as follows: (STANDARD) (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval. (B) For a Component Installed in an Aircraft.—Complete items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, and 6, and									
(C) For a	submit as described in (A) above. (C) For a Spare Component.—Complete items 3 (b, c, or d), 5, and 6, and submit to CAA representative for approval. When approved, retain both copies of this form with the component until installation on an aircraft. At that time items 1, 2, and 4 must be completed by the installing agency which will then forward forms as described in (A) above.								
1. AIRCRAFT	MAKE Grum						IFICATION MARK		
2. OWNER	NAME (First, middle, last) 2. OWNER NAME (First, middle, last) State of New York Arcade Building Conservation Department Albany, New York								
3. FILL IN II	VFORMATION I	N THIS ITEN	ONLY FO	R THE UNIT RE	PAIRED A	ND/OR AL	TERED		
UNIT	МАІ	KE		MODEL		SERIAL N	10.	MATURE O	MAJOR ALTERATION
IRCRAFT	*******	••••••	♦♦ (As describe	cd in item 1 above)	*******	•••••	••		x
b. PROPELLER BLADE OR HUB				DADOW			Y (1 1 1 1 1 1	COCATI	(NA)
c. ENGINE		•	A	PPRO∀≟∪	, ၁			31 EU 11 //310N (1-4	1 1 1
d. INSTRUMENT	TYPE AND MAN	NUFACTURER		BY Janne	of Hong	du.	DATE.	uguest 9- 4	1250
								U	
The following items are to be completed by repair or alteration agency. However, in the case of a spare component, item 4 will not be completed until such component is installed in an aircraft. At this time, item 4 will be completed by the installing agency, if applicable.									
4. AIRCRAFT	емртү weigh 6290	T (Pounds)* E		er of gravit in aft dat		n datum)*	USEFUL I	LOAD (Pounds)	
* After the repa	irs and/or alterations	described below	were made.						
S. KIND OF	AGENCY WHICH	H MADE REF	PAIRS AND	OR ALTERATIO	NS (Check)				
MAN	IUFACTURER	X A	PPROVED RE	PAIR STATION NO	11	5 (Specify)		CERTIFIED	MECHANIC
1	NAME		1	RESS (Street and nu		e, and State)		DATE WOF	RK ACCOMPLISHED
6. AGENCY	Aero '	Trades,		Roosevelt F Mineola, Ne				Jul	y 10, 1950
ITS ASSOC	TION OF WORK CIATED CIVIL A ARING AIRCRAFT	ERONAUTIO	CS MANUAL ON MARK.)	.18. (IF MORE SI	PACE IS NEE	EDED, CONT	INUE ON RI	EVERSE OR AT	TACH SEPARATE
This form 337 is added to Form 337 dated May 10, 1950. The shutoff valve was installed main fuel strainer located behind pilots head. Unusable fuel 1.5 gals. (9 lbs.) at \$\neq 27\$ = Moment 243.									
Unusable	e fuel 1.5	gals. (9	lbs.) at	f = 17 = Mon	ent 243			:	
ruer gav	ige mas cat:	ibrated i	n TeaeT	flight alti	itude.		40	m TRATES	
Fuel sys	stem was cho	ecked in	flight.		·		/ <u>200</u>	INC.	₽ ⁽
I CERTIFY t	hat the above sta	atements are	true and cor	rect to the best of	of my know	rledge.	24100E.	212.1.1.1	;^\';
Paul Nyl	nolm Taul (Signature of supervis	ing mechanic)	Hun -		E 16576				y 10, 1950 Date)
•	<u> </u>		BE COMPI	LETED BY CAA			ES .		
APPROVE	(TURE OF D		<u> </u>		NO.		DATE	
FORWARDEI ENGINEERII APPROVAL	FOR SIGNA	TURE OF IN	ISPECTOR			☐ ACC	EPTED NSPECTED	DATE	15-50

U. S. GOVERNMENT PRINTING OFFICE

16-54010-1

Aux. tank was run dry. engines cut, fuel valve was turned to main tank. Engine returned to normal power. Elapse time 12 seconds.

Vent line has downward slope as shown in picture No. 5 and terminates in fuel cap box to prevent spray and rain from entering line.

The following placard was installed adjacent to Aux. fuel valve:

Auxiliary Fuel 80 Gals.

Use only in level flight.

Take off, climb, decend and land on main tanks.

Aux. fuel valve must be off except when using.

-All lines used in new installation $5/8^n$ 0. D. which is the same size as original fuel lines.

	Weight	Arm	Moment
Old Computed Unusable fuel (1.5 gals.)	628 1. 5	23.03 27.00	144651.7 243
	6290.5	23.03	144894.7

Summary:

Empty Weight 6290 lbs.

Empty C. G. 23.03 in aft datum

Useful Load 1710 lbs.

Picture 4 shows top of gas tank below floor, filler line, vent line, door to reach hand in to drain gas

Picture 5 shows filler line, vent line, fume tangktaken tight box

Picture 6 shows fuel cap, exhaust ventilator

CIVIL AEROMANTOF COMMERCE

OC MA TS OI BS DUA

DEPARTMENT OF COMMERCE

Form Approved. Budget Bureau No. 41-R052.2.

	REPAIR AND	ALTERATIO		ERONAUTICS ADMINI (AIRCRAFT, PRO			NSTRU	MENTS)
		(SEE REVE)	RSE SIDE	OF THIS FORM	FOR IN	STRUCTIONS)	STAM	DARD)
1. AIRCRAFT	MAKE			MODEL	SEF	RIAL NO.	NATIO	NALITY AND REGISTRATION MARK
	Gram			G-21 A		1152		N 606
	NAME (First, mide			ADDRESS (Street and		, zone, and State)		
2. OWNER	State of			Arcade Build				İ
	Conservat	ion Depart	ment	Albany 7, No	ew York	C		
3. FILL IN I	NFORMATION	IN THIS ITEM	ONLY FOR	R THE UNIT REPA	IRED ANI	D/OR ALTERED		
			Ī		<u> </u>	· · · · · · · · · · · · · · · · · · ·	NATU	JRE OF WORK (Check)
UNIT	M	AKE	İ	MODEL	51	ERIAL NO.	MAJOR R	REPAIR MAJOR ALTERATION
a. AIRCRAF	Т РОВОООН	***********	√ (As describe	ed in item I above) 👭	******	×		X
b. PROPELLER BLADE OR HUB								
c. ENGINE			1					
	TYPE AND MA	ANUFACTURER					•	
d. INSTRUMENT	г							
4. AIRCRAFT	1	This	aitom must	be completed by re	noir or al	torotion agency	TI OWAY	on in the case
WEIGHT AND	D BALANCE DATA	of a	spare comp raft. At th	connected by reconnected by reconnect, it will not be nis time, it will be connected by reconnected by reconnec	completed ompleted	d until such compo by the installing a	nent is i agency,	installed in an
*AFTER the rel	pairs and/or alterations	.		LIMITI CLITTER OF				USEFUL LUND (1 vanus)
_	pelow were made.	628	81	28. 03			1719	
5. KIND OF	AGENCY WHIC	H MADE REPA	IRS AND/C	OR ALTERATIONS	(Check)			
☐ MAR	NUFACTURER	APPROVED	REPAIR ST	ATION NO.	(Specify)		CERT	TIFIED MECHANIC
	NAME			RESS (Street and number		nd State)	DAT	TE WORK ACCOMPLISHED
6. AGENCY	AERO TI	RADES, INC.		Roosevelt Fiel Incola, New 1				No 30 3000
7 DESCRIB		•	4			WITH PART 18 OF		May 10, 1950
Manufa Tank Fuel to Owned restin tanks and af Fuel to 3/4" A	actured 2 - cs tested as tanks were : by State of ag on sponge were placed t and side cank cap was an fittings is needed, continue D FOR	352H .064' t 3.5 lbs. installed if N. Y. Core rubber, if a side by standarded and hose.	" Alum. air pre in Grumm nservati ½" sheet side wit Total c d Max. & A ½" s		ith bafure 1) 606 Seween St bottom ber in anks we ctane. s welde	fels. All sorial 1152 action 13 and 2 angles of between and are 31 \neq 56 Tanks were ad to top of	seams d Stat hull strap 87 0 inter	l. The two ped down fore Gals. rconnected by for outlet.
APPROVAL						ROOSE\	VELT-E	
I CERTIFY th	at the above sta	ul My li	colun	A CENTIFICATE A CONTROL OF THE CONT	16576 humber and	rating)		, N. Y.
	DESIGNE	E'S SIGNATURE	E COMPL	EIED BI CAA RI	EPRESEN	NO.	DAT	F
APPROV	ED			<u> </u>			_	
REJECT	ED CAA (GE	NT SIGNATURE	elen.			ACCEPTED REINSPECTE	DAT	E8-15-50

gauge was installed in top of 1-G-44 type electric f nk. A $3/8^n$ vent line. was connected to the top of both tanks and vented overboard on side of hull 2 ft. above top of tanks clear of all exhaust, doors, etc. Hold down straps (4) were Made from 2.5" .064" 24ST Dural with 3/16" trembuckels for take-up. Side to side straps (2) were anchored to hull bottom "Z" angles with 4-AN3 bolts at each end. Fore and aft straps (2) were anchored to reinforced channels at frontend with eyebolts (Picture 2) and anchored to aft end with 1" x 1" 24St angle which was bolted with AN3 bolts to hull "Z" angles. (Picture 3) Tanks are filled by a 2" alum. line running from tank (Flex. hose connection) to a vapor proof box 52" x 62" which was riveted to side of hull. Fuel is loaded from outside, any spillage will spill overboard. Standard Aircraft type filler cap used. Two clamshell type ventilators were riveted to sides of hull to ventilate fuel tank compartment. Fuel tanks are sealed off from passenger compartment by Bulkhead 13 and Bulkhead 16 which are solid, and by plywood floor and jump seats. Fuel is pumped from tanks by a Delco No. A4949 electric driven fuel pump which was mounted by 4 ANA bolts to cockpit floor. A 270 shut-off valve was installed in the line from the electric fuel pump to the main fuel system strainer. See attached sketch for fuel system. Outlet stand pipe in tank has approximately 2" clearance from bottom of tank leaving approximately 1.5 gal of unusable fuel in bottom of tank for sump. A drain valve is located at the lowest point for draining sump. single pole single throwswitch is used to turn the electric driven fuel pump on and off. The switch is connected to the pump with a #ll gauge wire and is fused at the ships original bus bar with a 15 Amp fuse.

16-54010-2 U. S. GOVERNMENT PRINTING OFFICE

CAA representative for inspection or approval.

Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to

warded to the nearest CAA district office or CAA agent.

installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy foragency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the with the component until installation on an aircraft. At this time Items I, 2, and 4 must be completed by the installing Mechanic-Submit to CAA representative for inspection and approval. When approved, retain both copies of the form For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

Distribute copies as in a above. For a Component Installed in an Aircraft—Complete Items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, 6, and 7. agent prior to returning article to service.

Manufacturer or Approved Repair Station-Submit original to aircraft owner, forward copy to CAA district office or CAA

approval, the CAA representative will return the original copy to the mechanic who should submit it to the aircraft Mechanic-Submit to CAA representative for inspection and approval prior to returning the article to service. Upon

a. For an Aircraft Repair and/or Alteration—Complete Items 1, 2, 3a, 4, 5, 6, and 7.

Repair agencies will be guided as follows when completing this form.

and/or repair does not change any of the operation limitations.

rating may return the article to service without prior approval of an authorized CAA representative, provided the alteration The manufacturer of an aircraft, engine, propeller, or instrument, and a certificated repair station holding the appropriate returning the article to service.

Certificated mechanics must, in all cases, obtain approval of the repair and/or alteration from the CAA representative prior to .6 ized representative of the CAA.

Form ACA-309, the aircraft shall not be returned to service until the operation limitations have been corrected by an author-When repairs and/or alterations are made which affect the operation limitations set forth in the Airplane Flight Manual or

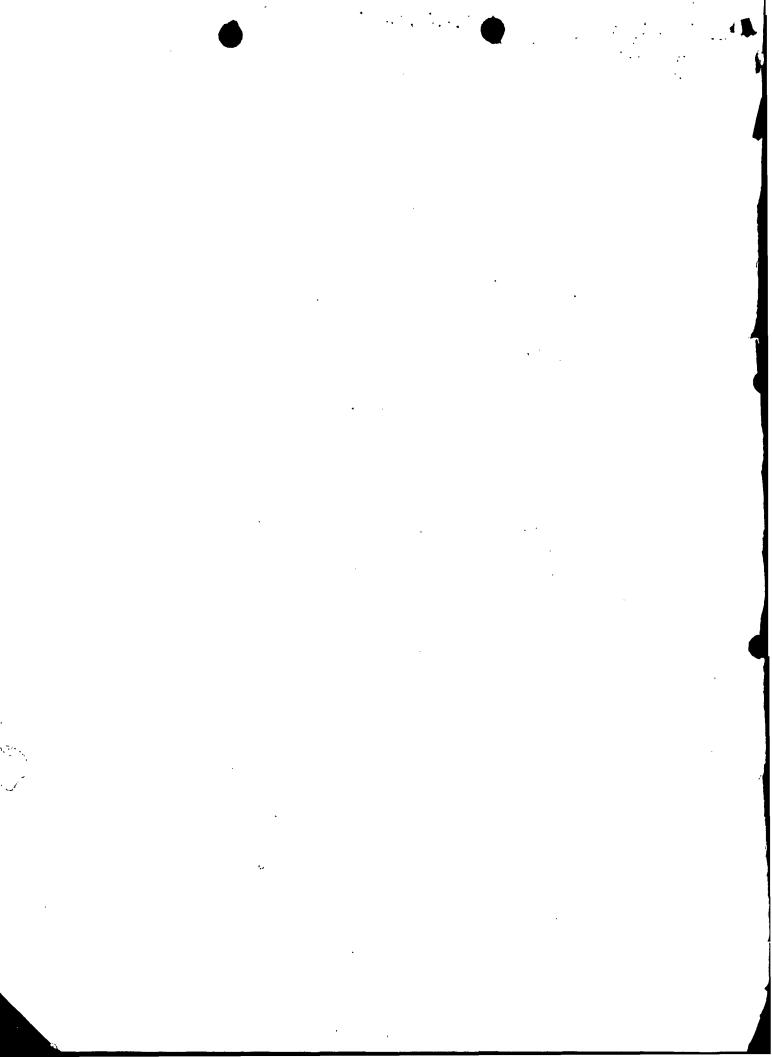
This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine,

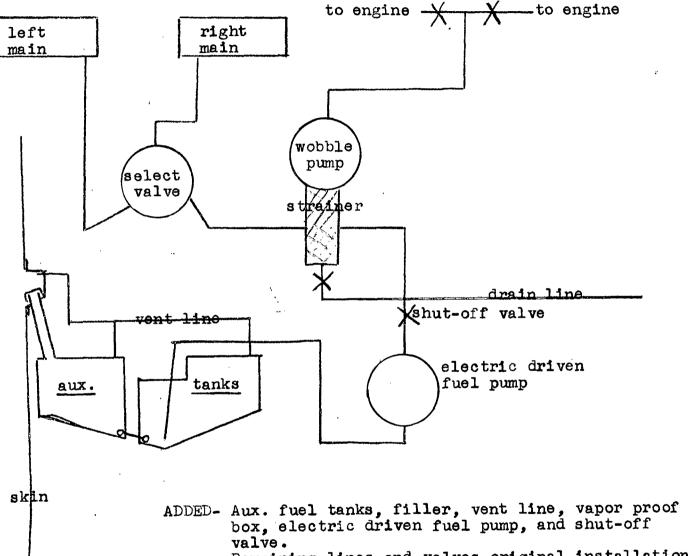
Picture 1 shows the two fuel tanks laying on their side, bottom facing camera. Drain fitting can be seen at lowest point of tanks. Interconnecting bosses can be seen at lowest point of small tank and next to drain fittings. Filling tube can be seen on right side.

Picture 2 shows hull bottom "Z" angles which support tank, forward reinforced strap anchors, and angle supports to prevent tank from sliding forward.

Picture 3 shows hull bottom "Z" angles which support tank and rear tank strap anchors.

ROOSEVELT FIELD,





Remaining lines and valves original installation.

Paul Nyholm/ A&E 16576

BOOSEAET LIETH

:

· ·

PAUL C. HALSTEAD
WEIGHT & BALANCE SERVICE
MERRICK, N. Y.

WEIGHT AND BALANCE

CAA IDENT. MARK

N606

SUPPLEMENT TO REPAIR AND ALTERATION FORM ACA 337 Dated 1-24-50

I A mistake had been made on Form 337 dated June 18, 1947 by Leo Cantor as follows:

		Weight			Moment
	Weight	Should Be	Arm	<u>Moment</u>	Should Be
Motor Reel	1.2	6.8	148	177.6	1006.4
Motor Reel Head	6.8	1.2	-9	<u>-61.2</u>	<u>- 10.8</u>
				116.4	995.6

995.6 - 116.4 = 879.2 in. lbs. Moment correction to be applied to correct error.

This error was carried through on Weight and Balance report No. ATG3 by Aero Trades.

II Changes This Date:

·	Weight	Arm	<u>Moment</u>
Previous E. W. Form 337 dated			
Nov. 19, 1948	6245	22.91	143,051
To correct error shown above I			879.2
Remove the following this date:			
Item No. 221 Work Platform	- 9	189	-1,701
" 207 Antenna Mast	-2	-10	20
" " 103 Starters (2)	-77	-12	924
Added this date:			
Starters (2) Eclipse E80	40	-12	- 480
Fuselage fuel tank	75	27	2.025
Pump, Delco A4949; valve &	9.5	-7	- 66.5
bracket			
Empty Weight	6281.5	23.03	144,651.7

<u>Summary:</u> Empty Weight 6281 lbs. Empty C.G. 23.03 in. Useful Load 1719 lbs. (8000 - 6281)

III Basic Loading Data for Use with Loading Chart in Report ATG3

Chart Datum is centroid of nose baggage compartment 65ⁿ forward of CAA datum

Basic Loading

<u> Item</u>	Weight	Arm	<u>Units</u>
Empty Weight	6281	88.03	552.92
Pilot	170	60	10.2
011 (15 gal)	113	73	8,25
Basic Weight	6564		571.37

Jule Il Lucy ASA

Paul Myholm DAM # 153

DEPT OF COMMERCE
MUA SOLTUANORIA MINI-

03. MA TO 01

FEB 28

WASHINGTON 3

`	REPAIR AND	ALTERATIO	N FORM	(AIRCRAF	T, PROPEL	LERS, ENGINES, I	NSTRU	MENT	(S)	
	(SEE REVERSE SIDE OF THIS FORM FOR INSTRUCTIONS) (Standard)									
1. AIRCRAFT	MAKE Grum	man		MODEL		SERIAL NO.	NATIC	NATIONALITY AND REGISTRATION MARK		
				G21A		1152		N6	506	
	NAME (First, midd State of No	le, last) Bw. York		ADDRESS	(Street and numbe	er, city, zone, and State)				
2. OWNER	Conservat		ment	Arcade	Building	, Albany 7, Ner	w York	C		
3. FILL IN I	NFORMATION I	N THIS ITEM	ONLY FO	R THE UNI	T REPAIRED	AND/OR ALTERED				
UNIT	МА	KE		MODEL		SERIAL NO.	NATI	JRE OF	WORK (Check)	
							MAJOR I	REPAIR	MAJOR ALTERATION	
a. AIRCRAF	T 10000000	*******	4 (As describ	ed in item I al	bove) MANAMA	***********		i	x	
b. PROPELLER BLADE OR HUB										
c. ENGINE										
	TYPE AND MA	NUFACTURER								
NSTRUMENT	Г 						1			
4. AIRCRAFT						•	<u> </u>			
-1. /111011111						or alteration agency. Dieted until such comp				
WEIGHT AND	BALANCE DATA	airc	raft. At t	his time, it v	vill be comple	ted by the installing	agency,	if appli	cable.	
		EMPTY WEIGHT	(Pounds)*	EMPTY CE	NTER OF GRAVI	TY (Inches from datum)*	7	USEFUL	LOAD (Pounds)*	
_	airs and/or alterations elow were made.	(007							i	
4000 1000 0		6281	. 11 0. 15		88.03			17:	19	
5. KIND OF	AGENCY WHICH	Taken from	IRS AND	OR ALTERA	TIONS (Check	1950	(_1)	λ		
☐ MAN	UFACTURER	APPROVED	REPAIR ST	TATION NO	115 (S _I	oecify)	CER	TIFIED I	MECHANIC	
	NAME		ADD	RESS (Street a	nd number, city, z	one, and State)	DA	TE WORK	ACCOMPLISHED	
6. AGENCY	Aero Trades	Inc.	Roose	evelt Fie	eld, Mine	ola, N.Y.	Jar	1. 24,	, 1950	
7. DESCRIP	TION OF WORK	(ALL WORK M AND ITS ASSO	UST BE AC	COMPLISHER VIL AERONAL	IN ACCORDA	ANCE WITH PART 18 C _ 18.)	F THE C	IVIL AIF	REGULATIONS	
	Removed the	following	equipr	ent:	Item No.	221 Work Plat	form			
					Item No.	207 Antenna m	est			
					Item No.	103 Starter (2)		الو	
	Installed th	ne followi	na omit		0 77-7 4				(9)	
	21.0 002200	TO TOTTOWT	ng edut	.pment:	2 Ectibs	se starters, M age fuel tank	odel E	380	v	
					1 Delco	Pump Aliglia, Vi	9.7.vo 0		-a -1A	
	The lat	tter two 1	tems, P	uselage	tank. Del	lco Pump, Valve	arve a	hrack	acket at ano	
	min marten Ti	i me atto	rait ou	t rucomp	Tete•			·	eo ere	
If more space	ioneeded continue 18456 56 6	on reverse, or all ttached s	ach separate NGC t fo	sheets bearing	aircraft registi	ration mark.	• • • •			
If more space is needed, continue on reverse, or attach separate sheets bearing aircraft registration mark. From the second sheet for Weight and Balance. FORWARDED FOR ENGINEERING APPROVAL										
I certify th	at the above stat	ements are tru	e and corre	ect to the be	st of my knov	wledge.				
Paul Nyho	Paul Nyholm acc Uykolus & B 16576 (Signatur of Supervising mechanic) (Certificate number and rating) Jan. 24, 1950									
	(Signature of supervisi		T. 007577		Contificate number			(D	are)	
	DESIGNA	TO B	E COMPI	ELED BA	CAA KEPRE	SENTATIVES NO.	DAT	TE.		
APPROV		uel My	holy	<i></i>	DAMI	/53	_Jo	en 2	25,1950	
REJECT	ED CAN (GEN	T SIGNATURE	(hin	eern		ACCEPTED REINSPECTI	ED PAT	شر الر	76-5d	

INSTRUCTIONS

- I. 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 commediate of the Airplane Flight Manual or Form ACA-309, the aircraft shall not be returned to september the corrected by an authorized representative of the CAA.
- 3. Certificated mechanics must, in all cases, obtain the reput affection from the CAA representative prior to returning the article to service.
- 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 branchorized CAA representative, provided the alteration and or repair does not change any of the operation little of TON
- 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 aircraft
- 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.
- For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

 Mechanic—Submit to CAA 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 CAA is required, only a log-book entry by the installing agency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy for-

warded to the nearest CAA district office or CAA 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.

6-54010-2 U. S. GOVERNMENT PRINTING OFFICE

	MERCE NISTRATION	FORM APPROVED BUDGET BUREAU NO. 41-R041.3			
APPLICATION FOR AIRWORTHINESS ANNUAL INSPECTION OF A		/OR		INSTRUCTIONS it this form to the Civil Aeronistration Field Representative.	
1	IDENTIFICATION				
ORIGINAL AIRWORTHINESS CERTIF.		OTHER (Sp	ecify)		
ANNUAL INSPECTION					
	AIRC	RAFT			
MA KE	•	MODEL	G-21 A		
Grumman REGISTRATION NO. MANUFACTURES	R'S SERIAL NO.	DATE MANUF		TYPE CERTIFICATE NO.	
606		Oct. 19		654	
		INE			
MA KE		MODEL			
Pratt & Whitney		R9	85-AN-6B	•	
OWNER'S NAME	,		ADDRESS (Stree	et and number, City, Zone and	
State of New Years Concernation	n Dant	State)	ulda Alba	ny 7, N.Y.	
State of New York, Conservation	i Depo.	ATCAGE E	rug, , nico		
TTACHMENTS (Check which)	Į.	THAT THE AB	OVE STATEMENT	S-ARE TRUE.	
ACA-319 WEIGHT AND BALANCE REPO	RT		state of	new your	
ACA-337 SPECIAL APPROVALS			Cons	walin son.	
ACA-805 DATA, DRAWINGS, ETC.			الاولىس	NER-DR NICHORAZED 4882-11	
ACA-317 UNAPPROVED DEVIATION DA		0, 1950 ATE	HGENT	TOTLE	
FORM ACA-305a (FORMERLY ACA-307) (To be completed by a CA	AIRCRAFT INSP A inspector or a	ECTION REP a designate	ORT ed inspector	or representative)	
IT HAS BEEN DETERMINED THAT THE AIRCRAFT	DESCRIBED IN 305	ABOVE IS I	N CONFORMITY	WITH THE FOLLOWING	
ALL APPLICABLE MANDATORY NOTES, INSTRUME WITH ◯ YES ◯ NO	ENT MARKINGS AND F	PLACARDING R	EQUIREMENTS H	AVE BEEN COMPLIED	
(AIRCRAFT SPECIFICATION - AIRWORTHINESS	DIRECTIVE, NO(S).	A-654-3	AD's thm	1 50-2 (SPECIFY)	
AUTHORITY FOR EXCEPTIONS (If any)					
FORM ACA-1362, CERTIFICATE OF AIRWORTHIN	NESS, ISSUED	ORIGINAL	ANA 🎞	NUAL INSPECTION	
Check whether)					
OPERATION LIMITATIONS FORM ACA-309 W	· ·	availab	Le ,		
APPROVED AIRPLANE FLIGHT MANUAL IS IN					
DESIGNEE'S SIGNATURE		INGS		wy	
i i		0 1	100	Jan. 21, 1950	
AIRWORTHY Paul Nyholm DAM UNAIRWORTHY CAA (NSPECTOR'S SIGNA		un py	worken 1		
Julin lb	proung-	/		SPECTED /-26-30	
REASON FOR DISAPPROVAL, OR REMARKS (Indi	cate if you have	used the re	verse to cont	inue this or	
Weight and balance computation	are current	and corre	ect.	0e 16-50 x	
Last known operation date Janu Aircraft based at Albany Airpo		.Y.		5 mm	
				-	
				9-14-0	
·) ·				93.W X	

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Oc. 11 20 8 7 833

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Budget Bureau No. 41-R052.1. Approval expires December 31, 1948.

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

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, as follows:

- (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval.
- (B) For a Component Installed in an Aircraft.—Complete items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, and 6, and submit as described in (A) above.
- (C) For a Spare Component.—Complete items 3 (b, c, or d), 5, and 6, and submit to CAA representative for approval. When approved, retain both copies of this form with the component until installation on an aircraft. At that time items 1, 2, and 4 must be completed by the installing agency which will then forward forms as described in (A) above.

4 Inc	as be completed by the histaining	g agency which will th	en forward forms as	described in (A) a	150 y C.			
1. AIRCRAFT	RCRAFT		SER	RIAL NO.	CAA IDENTIFICATION MARK			
	Grumman	0-2	14	1152	HC 6	506		
	NAME (First, middle, last)	ADDRESS	(Street and number, city, 20	me, and State)				
2. OWNER	State of New York							
·	Conservation Dept.	Alba	ny. New York					
3. FILL IN I	NFORMATION IN THIS ITEM			OR ALTERED				
					NATURE OF WORK (Check)			
UNIT	MAKE MODEL SERIAL NO.			RIAL NO.	AAJOR REPAIR	MAJOR ALTERATION		
AIRCRAF	т ••••••	(As described in item 1 ab	ove) *********	•••••				
D. PROPELLER								
BLADE OR HUB		•		STOTI .	l l			
		VED, SUBJE	CT TO INS		1			
c. ENGINE	10000	wen subut	HGHE RING DIVI	STON LI-11-1	ì			
	TYPE AND MANUFACTURER		HOHE RING DIVI	72749				
d. INSTRUMEN		1. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DATE	J. C. Land				
a. INSTRUMEN	ev /	1.						
	U i i i							
	llowing items are to be complete							
	completed until such component	is installed in an aircra	it. At this time, ite	em 4 will be comple	ted by the in	stalling agency,		
if applicabl	T				•	· · · · · · · · · · · · · · · · · · ·		
4. AIRCRAFT	EMPTY WEIGHT (Pounds)* EMI		_	·	OAD (Pounds)*			
	6245	22.9	1	175	<u>5</u>	· '		
* After the rep	airs and/or alterations described below we	re made.						
5. KIND OF	AGENCY WHICH MADE REPA	IRS AND/OR ALTERA	TIONS (Check)					
	NUFACTURER • APF	DOVED DEDAID CTATIO	110 11¢	Г	CERTIFIED	MECHANIC .		
L	AFF	PROVED REPAIR STATIO	(5	Specify)		MECHANIC		
	NAME .	ADDRESS (Street of	nd number, city, zone, and	State)	DATE WOR	K ACCOMPLISHED		
6. AGENCY								
	Aero Trades Inc.	Roosevelt	Field, Mineo	la. N. Y.	Nov. 1	1948		
7. DESCRIP	TION OF WORK ACCOMPLIS							
ITS ASSO	CIATED CIVIL AERONAUTICS	MANUAL 18. (IF MOI						
SHEETS BE	EARING AIRCRAFT IDENTIFICATION	N MARK.)						
Installe	d electric driven land	ding gear retra	ction unit wi	th motor mou	ated unde	m co-		
	seat and limit switch							
Report	No. A.T.Cl2for instal	lation data. T	his installat	ion is subject	ct to fir	al		
Approva	l by C.A.A. engineering	ng. AFDO TO	DEC INC		,	المديري		
uppi ora						We .		
Blues	ment in Blu	ROOSEVE ROOSEVE	W. Thenes	- Myst	9 8106 -			
I CERTIFY t	that the above statements are tr	ue and correct to the t	est of my knowledge	e. <i>U</i>				
	≤ 1 ≥ 0 ≤ 1	() .						
	Taux Myllo	tu ,	e ም ጎዳሮንፉ		Now 10	3 ol.8		
	(Paulre Nyholmg mechnic)	2.1	Certificate number and re	ating)	Nov. 19,	bate 740		
No.	то в	E COMPLETED BY	CAA REPRESENT	ATIVES				
APPROV				NO.	DATE			
REJECT	· · · · · · · · · · · · · · · · · · ·	•	r N. 2	•		•		
FORWARDE ENGINEERI		PECTOR/ _ /	Г	ACCEPTED	DATE	460		
ENGINEERI APPROVAL	NG THATTIENS	Kunta	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	REINSPECTED	2-2-	49		
	- I WWW TO C	· /~~~~				· · · · · · · · · · · · · · · · · · ·		

	WE	IGHT ARM	MON
Old computed Landing gear motor installation	62	220 22.99 25 1.00	143026 25
New Computed	62	245 22. 91	143051
•			

nov. 22,1948

The aloove installation was flight checked in gusty conditions. Limit switches and motor aperated satisfactorily

Paul Hyholm

A X E 16576

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Budget Bureau No. 41-R052.1. Approval expires December 31, 1948.

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

INSTRUCTIONS.	—This form	must be	filled	out in	duplicate	each	time	a major	repair	and/or	alteration	is	made	of	an	aircraft,
propeller, engine, o											•					

- (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval.
- (B) For a Component Installed in an Aircraft.—Complete items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, and 6, and submit as described in (A) above.
- (C) For a Spare Component.—Complete items 3 (b, c, or d), 5, and 6, and submit to CAA representative for approval. When approved, retain both copies of this form with the component until installation on an aircraft. At that time items 1, 2, and 4 must be completed by the installing agency which will then forward forms as described in (A) above.

1. AIRCÉAFT	MARE Grumman	G-21A	SERIAL NO.	CAA IDENTIFICATION MARK
2. OWNER	NAME (First, middle, last) State of New York Conservation Dept.	ADDRESS (Street and nu	, -, , ,	
3. FILL IN IN	FORMATION IN THIS ITEM	ONLY FOR THE UNIT REPAIRE	D AND/OR ALTERED	
UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check)
		·		MAJOR REPAIR MAJOR ALTERATION
RCRAFT	***************************************	(As described in item 1 above)	••••••	
b. PROPELLER BLADE OR HUB				
c. ENGINE	Pratt & Whitney	R-985-6B	8181	x
	TYPE AND MANUFACTURER			
d. INSTRUMENT	·			
	ompleted until such componen	tis installed in an aircraft. At this was Adea //2		
4. AIRCRAFT	EMPTY WEIGHT (Bounds)* EM	IPTY CENTER OF GRAVITY (Inch	es from datum)* USEFUL	LOAD (Pounds)*
* After the repai	rs and/or alterations described below w	ere made.		
5. KIND OF A	GENCY WHICH MADE REPA	AIRS AND/OR ALTERATIONS (Ch	eck)	
MANI	UFACTURER AF	PROVED REPAIR STATION NO.	3530 (Specify)	CERTIFIED MECHANIC
ł	NAME	ADDRESS (Street and number, cit	y, zone, and State)	DATE WORK ACCOMPLISHED
6. AGENCY	Spartan Aero Repair	Central Airport,	Camden, N. J.	11/10/49
ITS ASSOC		SHED IN ACCORDANCE WITH S MANUAL 18. (IF MORE SPACE IS IN MARK.)		
TP ~-	ina majam arrambaula	d in secondance with me	mufactumente ance	nifi aa ti an a
_		d in accordance with mainspected. Aluminum Al	-	
		nd and found to be sati		
		arts used in the overha		
	·			•
I certify th	at the above statements are t	rue and correct to the best of my	knowledge.	
U	illiam Hudson	A & E 1798	94	12/3/49
()	Signature of supervising mechanic)	(Certificate nu	mber and rating)	(Date)
		BE COMPLETED BY CAA REP		
APPROVE REJECTE		RIGNEE DAI	MI 153	DATE 25.1950
FORWARDED ENGINEERIN APPROVAL	FOR SIGNATURE OF IN	SPECTOR	Z ACCEPTED ☐ REINSPECTE	MATE 1-31-50
ALLIAUVAL	Pilla 10	U. S. GOVERNMENT-PRINTING OFFICE 16	-54010-1	

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SPARTAN ALRO REPAIR CENTRAL AIMPORT CALDEN, N. J.

November 10, 1949

The following new parts were used in the overhaul of Pratt & Whitney Engine Model R-985 AN6B Serial No. 8181 our Work Order 1063.

<u>YTTTYAUC</u>	PART NUMBER	DESCRIPTION
l ea	34463	Flyweight
l ea	34464	Flyweight
1 ea	71166	Valve, Exhaust
5 ea	163-D013	Primer Nipple
l ea	45535	Pipe, Oil Drain
l ea	9035	Lock
l ea	12788	Impeller
l ea	8712	Cover
l ea	12874	Cover
l ea	104749	Washer .
l ea	28626	Housing, Generator
l ea	117	Bearing
1 e a	1741	Nut, Spanner
l ea	463	Bolt
l e a	464	Bolt
l ea	71139	Bearing
l ea	3965	Gear
78 Ft	530E	Cable, Packard Ignition
18 e a	82308	Connector
1 e a	900-14	Gasket
l ea	26508	Primer Mube
l ea	26510	Primer Tube
2 ea	SP 5287	Spring Contact
2 e a	BK 5262	Stationery Contact
2 ea	CV 5268	Condenser
2 ea	PK 623	Oil Seals
l ea	RT 52137	Distributor Rotor
4 ea	BB 1019	Bearing
l ea	56210	Grsket Set
2 ea	2612	Gasket
2 ea	820	Gasket
2 ea	11468	Packing
12 e a	153	Rivets
79 ea	46 14	Pin
lea	871 <u>1</u>	Spacer
8 e a	39785	Pin, Knuckle
9 ea	31795	Pin, Piston
l ea	9035	Lock
l e a	12769	Bearing
4 ea	12768	Bearing
l ea	104	Bearing
l ea	122	Berring
2 e a	33455	Ring
18 ea	27057	Ring, Piston
18 e a	17079	Ring, Piston
9 e a	53616	Ring, Piston
9 ea	13681	Ring, Piston
9 ea		Cylinder Ass'y, Factory Rebarreled

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Sheet No.

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then Order No. 100	53	Life.		8181		# C A . #		to politicated annual per super-	napacini ka iai, indokalaka lihiliki likekini ide
• •						to employee the 1786s. In	um autorum "tempunda" litterie d	a	THE COLUMN TWO PERSONS AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSMEN
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12:00 1200 20.0	_78	82	126	3.0	54 .	120.0	270	305	280
12:15 1200 20.0	74	94	134	3.0	54	121.0	270	210	285
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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form Approved. Budget Bureau No. 41-R052.2.

16-54010-2

	REPAIR AND ALTERATION	N FORM (AIRCRAFT, PROI	PELLERS, ENGINES,	INSTRUMENTS)
	· (SEE REVE	RSE SIDE OF THIS FORM	FOR INSTRUCTIONS	S)
1. AIRCRAFT	Make Grumman	6-21 A	SERIAL NO.	NATIONALITY OF BEGISTRATION MARK
	NAME (First, middle, last)	ADDRESS (Street and n	number, city, zone, and State)	
2. OWNER	State of New York	Conservation Dep	t. Albany	
3. FILL IN I	NFORMATION IN THIS ITEM	ONLY FOR THE UNIT REPAIR	RED AND/OR ALTEREI	D
LINUT	MAKE	MODEL	CEDIAL NO	NATURE OF WORK (Check)
UNIT	MAKE	MODEL	SERIAL NO.	MAJOR REPAIR MAJOR ALTERATION
a. AIRCRAF	T ************************************	(As described in item 1 above) ****		
b. PROPELLER BLADE OR	Hamilton	Hub 2D30-235	103922	X
HUB	Baniton	Blades 6167A-12	276864	^
c. ENGINE		•	276865	
	TYPE AND MANUFACTURER			
d. INSTRUMEN	r			
4 44000457				<u> </u>
4. AIRCRAFT	of a	sitem must be completed by rep spare component, it will not be c	completed until such com	ponent is installed in an
WEIGHT AND	BALANCE DATA airci	raft. At this time, it will be con	mpleted by the installin	g agency, if applicable.
	EMPTY WEIGHT		RAVITY (Inches from datum)*	USEFUL LOAD (Pounds)*
	pairs and/or alterations 628	23.	03	1719
	Taken	from W+B d	at A la ?	24,1950
5. KIND OF	AGENCY WHICH MADE REPA	IRS AND/OR ALTERATIONS	Check po	- 7,7,700
		REPAIR STATION NO.	(Specify)	CERTIFIED MECHANIC
	NAME	ADDRESS (Street and number,		DATE WORK ACCOMPLISHED
6. AGENCY	Service of the servic	258 Herricks		1/10/50
7 DESCRIE	TION OF WORK (ALL WORK M		DEDANCE WITH PART 10	OF THE CIVIL AIR REGULATIONS
21 ad es	were checked. Propelle planeter is	ciated civil aeronautics mar reconditioned. Hut er was assembled e peller was install	Assembly was and balanced;	Magnaflux and angles and agine
		÷		·
If more space	is needed, continue on reverse, or atto	ach separate sheets bearing aircraft r	egistration mark.	
FORWARDE ENGINEER!	D FOR	•		
	at the above statements are tru-	e and correct to the best of my	knowledge.	
9	1 Things		16655	Jan 20, 1950
U	(Signature of supervising mechanic)	(Certificate n	umber and rating)	(Date)
		E COMPLETED BY CAA RE		
☑ APPROV	DESIGNED SIGNATURE	holm DA	M/ 153	Jan 25, 1950
REJECT	ED CAA AGENT SIGNATURE	Decen-	ACCEPTED REINSPECT	// /- 2 / · · · · · · ·

INSTRUCTIONS

- 1. 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.
- When repairs and/or alterations are made which affect the operation limitations set forth in the Airplane Flight Manual or From ACA-309, the aircraft shall mot be returned to service until the operation limitations have been corrected by an authorized and the CAA Action of the CAA
- Certificated mechanics must, in all cases, öbitain approval of the repair and/or alteration from the CAA representative prior to returning the article to service.
- The manufacturer of an aircraft, engine, mydpelle, or instrument, and a certificated repair station holding the appropriate rating may return the article to advice without prior approval of an authorized CAA representative, provided the alteration and or repair does not change any of this behation limitations.
- 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.

CAA representative for inspection or approval.

- 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 aircraft
- 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.
- For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

 Mechanic—Submit to CAA 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 I, 2, and 4 must be completed by the installing with the
- installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy forwarded to the nearest CAA district office or CAA agent.

 Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to

agency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the

16-54010-2 U. S. COVERNMENT PRINTING OFFICE

Serial No. 1162

On January 26, 1949, Mr. L. Morda of 1-301 called the undersigned for additional information on amperage loads on the electric undercarriage installed in Grumman G-21, NC 606 by Aero Trades Inc., Roosevelt Field, Mineola, L. I., New York.

The amperage loads are as follows:

Up 23 seconds.

Down 20 seconds.

Surge 63 amps Up load Normal load

42 amps

Down load

Surge 40 amps.

Normal load

28 amps

The undercarriage was loaded with 180 lb. man on each wheel for the up check.

Surge load up

63 amps

Dropped to

43 amps

Increased to

49 amps

The gear operated normally at all times.

Allewant at harten

FORM ACA-305 DEPARTMENT OF COMMERCE FORM APPROVED (3-5-47) CIVIL AERONAUTICS ADMINISTRATION BUDGET BUREAU NO. 41-R041.3 APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR INSTRUCTIONS Please submit this form to the Civil Aeronautics Administration Field Representative. ANNUAL INSPECTION OF AN AIRCRAFT APPLICATION (Check whether) CAA IDENTIFICATION ORIGINAL AIRWORTHINESS CERTIF. XX NC ☐ NR OTHER (Specify)_ ANNUAL INSPECTION ☐ NX □ NI **AIRCRAFT** MA XE MODEL Grumman G-21A REGISTRATION NO. MANUFACTURER'S SERIAL NO. DATE MANUFACTURED TYPE CERTIFICATE NO. NC 606 1152 October 1942 654 ENGINE MAKE MODEL R985-AN-3 Pratt & Whitney R985-AN-6B OWNER'S NAME PERMANENT ADDRESS (Street and number, City, Zone and de Building State of New York Conservation Department Albany, New York ATTACHMENTS (Check which) I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE. WEIGHT AND BALANCE REPORT ACA-337 SPECIAL APPROVALS ACA-805 DATA, DRAWINGS. ETC. ☐ ACA-317 UNAPPROVED DEVIATION DATA FORM ACA-305a (FORMERLY ACA-307) AIRCRAFT INSPECTION REPORT (To be completed by a CAA inspector or a designated inspector or representative) IT HAS BEEN DETERMINED THAT THE AIRCRAFT DESCRIBED IN 305 ABOVE IS IN CONFORMITY WITH THE FOLLOWING ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE BEEN COMPLIED WITH TO YES TO NO (aircraft specification - airworthiness directive, No(s). A- 654-3 AD's through 49-3 AUTHORITY FOR EXCEPTIONS (If any) FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED ORIGINAL EXEMANUAL INSPECTION ck whether) PERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR APPROVED AIRPLANE FLIGHT MANUAL IS IN THE AIRCRAFT FINDINGS EE'S SIGNATURE AND NO. DATE AIRWORTHY Jan. 25. 1949 Paul Nyholm UNAIRWORTHY DATE Jules De Crescenzo | REINSPECTED REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item TYes XXNo) Approved Operation Limitations (Form 309) as required by CAR Ola is available in the aircraft. Weight and Balance computations are current and correct.

in Blue Front forms

Last known operation date, January 23, 1949

Aircraft based at Albany, New York

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

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, as follows:

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4 mu	st be completed by the ins	alling agency	which will then forward	ard forms as desc	cribed in (A) a	bove.	
1. AIRCRAFT	MAKE		MODEL	SERIAL	NO.	CAA IDENT	IFICATION MARK
1. AIRCRAFT	Grumman		G-21A	11	5 2	NC (606
	NAME (First, middle, last)		ADDRESS (Street and	number, city, zone, an	d State)		
2. OWNER	State of New Yor				•		
	Conservation Dep	artment	Albany, Ne	w York			
3. FILL IN I	NFORMATION IN THIS IT	EM ONLY F	OR THE UNIT REPA	IRED AND/OR A			•
UNIT	MAKE		MODEL	SERIAL	NO		WORK (Check)
	, , , , , , , , , , , , , , , , , , , ,				M	AJOR REPAIR	MAJOR ALTERATION
AIRCRAF	•••••••	♦♦♦♦ (As descr	ribed in item 1 above) ₩₩	•••••••			XX
b. PROPELLER BLADE OR HUB		,					
c. ENGINE		•					
	TYPE AND MANUFACTUR	ER					
d. INSTRUMENT				•	•		
		<u> -</u>					<u> </u>
	llowing items are to be con completed until such compo e.						
4. AIRCRAFT	EMPTY WEIGHT (Pounds)* 6220	EMPTY CE	NTER OF GRAVITY (A	Inches from datum)*	USEFUL LO		·. •
* After the repa	airs and/or alterations described bel	ow were made.	7=57/			<u></u>	
5. KIND OF	AGENCY WHICH MADE F	EPAIRS AND	O/OR ALTERATIONS	(Check)			
☐ MAN	NUFACTURER:	APPROVED F	REPAIR STATION NO	115 (Specify	y)	CERTIFIED	MECHANIC \
	NAME	AD	DRESS (Street and number	, city, zone, and State)		DATE WOR	K ACCOMPLISHED
6. AGENCY	Aero Trades Inc	1	Conserval+ Field	Manage 1	17 49 ·	N. orr	18, 1948
	<u></u>		Roosevelt Field	<u> </u>		!	
ITS ASSO SHEETS BE Installe Manufae Installe tanks,	cion of work accome clated civil aeronauted civil aeronauted engine overhaule cturer No. 6415, ed Cities Service 2 lbs, at \$1. ed oil dilution so	ed by Spa	artan Aero Repa	ir on right	side. En	ngine R90	B5-AN-6B, t oil
I CERTIFY t	hat the above statements a	re true and c	orrect to the best of n	ny knowledge.			-
-	2 00 /2 /2)			•		
	(Signature Pandry Nyhodmio	<u>い</u>) ,	A&E (Certificat	16576 number and rating)		Nov. 1	8, 1948 Date)
			PLETED BY CAA R	EPRESENTATI	VES		
APPROVI	D Paul	DESIGNEE My M	ohn N	DAM!	15.3	Nov.	19. 1948
FORWARDE ENGINEERI APPROVAL	D FOR SIGNATURE OF	INSPECTOR	Butter		CEPTED EINSPECTED	DATE ノスー/る	19, 1948 48
7		υ.	S. GOVERNMENT PRINTING OFFICE	16-54010-1			

Engine removed R985-AN6B, manufacturer No. 8181.

	WEIGHT	ARM	MOMENT
Old computed weight	6216	23.01	143020
Addeds			
Oil dilution Oil heaters	2 2	1.00 12.00	4 2
	6220	22.99	143026

New empty weight
New empty C.G. #22.99
New useful load 1780 lbs.

HAIL ROOM - J. WASHINGTON

Bh. Hd DS | DI NAL

DEPARTMENT DE COMMERCE CIVIL AEROHAUTICS ADMN

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Budget Bureau No. 41-R052.1. Approval expires December 31, 1948.

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

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4 mu	st be completed by the install	ing agency	which will then forwa	ard forms as de	escribed in	(A) abo	ve.	•
1. AIRCRAFT	Make Grumman		G-SI	" -	L NO. 152		CAA IDENT	IFICATION MARK
	NAME (First, middle, last) State Of New York Conservation Dept		ADDRESS (Street and	., .,	and State)		<u>-</u>	
3. FILL IN I	NFORMATION IN THIS ITEM	ONLY FO	R THE UNIT REPAI	RED AND/OR	ALTERED			
TINU	MAKE		MODEL	SERIA	AL NO.		TURE OF	MAJOR ALTERATION
IRCRAFT		•	•	***************************************	*****			
b. PROPELLER BLADE OR HUB	Ham ilton		30 -235 -6167A-12	277221 277222	and	. х		
c. ENGINE	·			277488				
	TYPE AND MANUFACTURER	•						
d. INSTRUMENT								
	llowing items are to be comple completed until such componer c.							
4. AIRCRAFT	EMPTY WEIGHT (Pounds)* EN	MPTY CENT	TER OF GRAVITY (I	nches from datum)*	USEFU	1 78	P (Pounds)	•
* After the repa	airs and/or alterations described below							•
	AGENCY WHICH MADE REP		OR ALTERATIONS	18	32	_ 🗆 •	CERTIFIED	MECHANIC
				(Spe				
	PAMERELLER SERVICE Inc.	ADE	RESS (Street and number,	, city, zone, and Stai	(e)			K ACCOMPLISHED
Filt	ECLA, NEW YORK						11/9/	48
ITS ASSO SHEETS BE	FION OF WORK ACCOMPLICIATED CIVIL AERONAUTIC ARING AIRCRAFT IDENTIFICATION	S MANUAI ON MARK.)	_ 18. (IF MORE SPACE	E IS NEEDED, C	ONTINUE ON	N REVER	RSE OR AT	TACH SEPARATE
Cadm	es were etched an ium Plated.Propel & were checked.P	ler wa	s assembled	and bala	anced:	angl	les an	xed and d
Inde	ex is 26, High i	s 26 ,	Low is 11,	Dia.is	8' 6".	Wt.1	s 157	-lbs.
I CERTIFY t	hat the above statements are	true and co	rrect to the best of m	y knowledge.				
£.)	Deine		A & E 1665	55		N	Tov 17	,1948
	(Signature of supervising mechanic)			number and ratin	· · · · · · · · · · · · · · · · · · ·		(Date)
			LETED BY CAA R		• • • • • • • • • • • • • • • • • • • •			
APPROVI		My ho	hu DA	ami No	153	2	ATE 70 . / 9	1948
FORWARDE ENGINEER! APPROVAL	D FOR STGOTURE OF IN	SPECTOR	Puntan V	t: 1 ==	ACCEPTED REINSPECT	- 1	ATE タール	5-48

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DEPARTMENT DE COMMERCE CIVIL AERONAÚTICS ADMU.

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BURBAU NO. .41-R052.1 APPROVAL EXPIRES DECEMBER 31, 1948

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

					·	
of an ai	TIONS - This form must be fircraft, propeller, engine,	or instru	ment, as follows:			
(A) Fo	or an Aircraft - Complete i or a Component Installed in	tems 1, 2, an Aircr	3a, 4, 5, 6, and It - Complete ite	7 and submit to CAA rms 1, 2, 3(b, c, or d,	epresentative f whichever is a	or approval. pplicable),
4,	5, and 6, and submit as d	escribed i	in (A) above.	•		
9.1	or a Spare Component - Compoperoval. When approved, re	tain both	copies of this	form with the componen	t until install	ation on an
	ircraft. At that time, ite			oleted by the installi	ing agency, whic	h will then
1. AIRCRAFT	Make Grummar		6-21A	SERIAL NO.		tification mark
	NAME (First, middle, last)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and number, city, sone	, and state)	
2. OWNER	State of New York Consumption Dopt.		A lba ny	he Le		
3. FILL: IN	INFORMATION IN THIS ITEM C	NLY FOR TH	I 1E UNIT REPAIRED A	IND/OR ALTERED		
	1		MODEL	SERIAL NO.	NATURE OF	WORK (Check)
UNIT	MAKE .		MODEL	SERIAL NO.	MAJOR REPAIR	MAJOR ALTERATION
a. A IRCRAFT		describe	d in item 1 abov	•)		
BLADE OR					·	
C. ENGINE						
	Pratt & "hitney	R-33	5-AN6B	6/15	· X	
d. INSTRUMEN	TYPE AND MANUFACTURER					
The follo	wing items are to be compl	eted by rep	air or alteration	agency. However, in t	he case of a spa	recomponent,
item 4 wi	11 not be completed until by the installing agency.	such com	ponent is instal able.	led in an aircraft. A	t this time, in	tem 4 Will be
4. A I RCRAFT	EMPTY WEIGHT (Pounds)* EN		R OF GRAVITY (Inc.)	hea from datúm)* USEFU	L LOAD (Pounds)* 1780	t
*APTER the	repairs and/or alterations					
	AGENCY WHICH MADE REPAIRS	•			Constant of	
L_ MANU	FACTURER APPRO	VED REPAIR	STATION NO. 377	(SPECIFY)	CERTIF	IED MECHANIC
	NAME	ADDR	ESS (Street and n	umber, city, sone, and	state) DATE WO	RK ACCOMPLISHED
GENCY	Spartan Aero Regair	730	OJ Kalghn Ave	Crear en E.J.	9_20_	4,8
AERONAU	TION OF WORK ACCOMPLISHED TICS MANUAL 18. (If more	IN ACCORDA	NCE WITH PART 18	OF THE CIVIL AIR REGULA	TIONS AND ITS AS	SOCIATED CIVIL
identit	ication mark) Engline ov	orhaule	la accordunc	o ith afgo theo.	Rie tions.	All steel
girts Ma	gnafluxed all alumin	in parts	a Ky 10 inspec			
uttached	sheet. Run in log	sheet at	ttached.			
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I CERTIFY	THAT THE ABOVE STATEMENTS	ADE TOUE A	ND CORRECT TO THE	BEST OF MY KNOWLEDGE.		
I CERTIFI	THAT THE ABOVE STATEMENTS	7 1	THE CORRECT TO THE	DEG! OF IM KNOWLEDGE		
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	SIGNATURE OF SUPERVISING	MECHANIC	CERTIFI	CATE NUMBER AND RATING	DA	TE
A	EN GERNANURE OF DESIN	TO BE COM	PLETED BY CAA R	EPRBSENTATIVES NUMBER	NOV.	19,1948
APPROVI	ED Faul	lyko	hu D	AMI 153	Dec 1	3,1948
ENGINE	DED FOR SPORTURE OF INSPI	1 / /	2-1-10	ACCEPTED REINSPEC	و دامره ا	5-48

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMN.

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BURBAU NO. 41-R052.1
APPROVAL EXPIRES DECEMBER 31, 1948

	REPAIR AND ALTERA	TION FORM	I (AIRCRAFT, PROPEL	LERS	, ENGINES, INST	RUMEN	T\$)	
of an air	ONS - This form must be f craft, propeller, engine, an Aircraft - Complete i	or instru tems 1, 2,	ment, as follows: 3a, 4, 5, 6, and 7	and :	submit to CAA rep	resen	tative fo	or approval.
4,	a Component Installed in 5, and 6, and submit as d	escribed i	in (A) above.					
800	e Spare Component - Componeval. When approved, recraft. At that time, ite	tain both	copies of this for	rm wi	th the component	until	installa	tion on an
for	ward forms as described i							
AIRCRAFT	Grumman		G-21-A		1152			606 TION MARK
OWNER	NAME (First, middle, lest State of New York Conservation Dopt.	•	Albery	N.Y.		and s	tato)	
FILL IN I	NFORMATION IN THIS ITEM C	NLY FOR TI	E UNIT REPAIRED AND	OR A	LTERED			
UNIT .	MAKE		MODEL		SERIAL NO.			ORK (Check) MAJOR ALTERATION
ALRCRAFT	· (As	describe	d in item 1 above)					
PROPELLER BLADE OR HUB	Hamilton Standard	2030-			103922 4 276865	,	K	
• ENGINE	Pratt & Thitney		-985 ATT-3		1777		K.	
INSTRUMENT	TYPE AND MANUFACTURER		•					
item 4 wil completed	ing items are to be compl 1 not be completed until by the installing agency, MPTY WEIGHT (Pounds)* EN	such com	ponent is installed able.	in a	datum)* USEFUL I	this t	time, it	em 4 Will be
• A I RCRAFT	6011(actual)		0.10		<u>+</u>	989		
	repairs and/or alterations AGENCY WHICH MADE REPAIRS							
☐ MANUF	ACTURER APPRO	•	(30 Speci				ED MECHANIC
1	partan Aero Repair	l l	ESS (Street and numb DO Kaight Ave. (tate)		K ACCOMPLISHED 24, 1948
AERONAUT identifi	ION OF WORK ACCOMPLISHED ICS MANUAL 18. (If more cation mark) Overhaul	ed engi	neded, continue on re ne in accordance	vera	th Mfgs speci	fica	tions.	All steel
on attac etched a	gnafluxed all alumi hed sheet. Overha ll steel parts magn . Overhauled prope	uled pro afluxed	opeller in according to the contract of the co	rdan req	ce with mfgs. seals and ga	eqe sket	cificat s. Prop	tions. Blade peller was
	run in Rog attache							
. •			·					
CERTIFY T		ARÉ/TRUE A	AE 24			J	ul y 24	,1948
	SIGNATURE OF SUPERVISING				BER AND RATING		DAT	E
APPROVEI REJECTE	SIGNATURE OF DESAL		chen Sofa Via	ESEN	NUMBER 1332	D A	Jaly 2	4, 1948
FORWARDS ENGINEES APPROVAL	ED FOR SIGNATURE OF INSPI	стоя		3	ACCEPTED .	- 1	ITE S	14.
ALINOTAL		N. 1. 18.1						

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BUREAU NO. 41-R083.1
APPROVAL EXPIRES DECEMBER 31, 1948

ALTERATION FORM (ALRCRAFT DROPFLIFRS ENGINES INSTRIMENTS)

	REPAIR AND ALTERA	TION FORM	I (AIRCRAFI, PROPEI	LEKS, ENGINES	, INSIR	UMEN 13/	
of an ai	IONS - This form must be i rcraft, propeller, engine,	or instru	ment, as follows:				
(B) Fo	r an Aircraft - Complete in a Component Installed in 5, and 6, and submit as o	an Aircra	eft - Complete items	and submit to 1, 2, 3(b, c,	CAA repr	esentative for is appropriate the second is appropriate to the second is a	or approval. oplicable),
(C) Fo ap ai	r a Spare Component - Comp proval. When approved, re rcraft. At that time, ite	lete item tain both ems 1, 2, 8	s 3(b, c, or d), 5, copies of this fo and 4 must be comple	rm with the con	monent u	ntil installa	tion on an
AIRCRAFT	MAKE Street in the street in t	H (A) ADO	HODEL -21 A	SERIAL NO.	2		I FI CATION MARK
	NAME (First a middle, last) /	ADDRESS (Street an	d number, city,	zone, a	nd state)	
OWNER'	Conservation De	pt_	albang	, new !	fork	٠ -	
FILL IN	INFORMATION IN THIS ITEM (NLY FOR TH	IE UNIT REPAIRED AND	OR ALTERED			
UNIT	MAKE		MODEL	SERIAL NO).		ORK (Check) MAJOR ALTERATION
AIRCRAFT	· (As	describe	d in Item 1 above)				
ROPELLER BLADE OR HUB	1		2D30-235	103922	i i	~	
• ENGINE	Contract Office.	- Cara	e 6/67A-12	276865	-		
• INSTRUMENT	TYPE AND MANUFACTURER						
				. Начала	in the		
item 4 wil	wing items are to be compl 11 not be completed until by the installing agency,	such com	ponent is installed able.	in an aircrai	t. At t	nis time, it	em 4 will be
• A I RCRAFT	EMPTY WIGHT (COLOR) E	APTY CENTE	salance Gr	nt fil	ISEFUL LO	(Pounds)	184
	repairs and/or alteration			per ?	1		
	AGENCY WHICH MADE REPAIRS	AND/OR AL	TERATIONS SCHOOL	- Y		m osánisi	
1 UNAM		VED REPAIR		SPECIFY)	_		ED MECHANIC
AGENCY	PESTER'S PROPELLER SERV	I	ESS (Street and numb	er, city, sone	, and acc		5 /47
	MINEOLA, NEW YO	ORK					
AERONAUT	ION OF WORK ACCOMPLISHED TICS MANUAL 18. (If more ication mark)	IN ACCORDA	NCE WITH PART 18 OF reded, continue on re	THECIVIL AIR R everse, or attac	EGULATION	IS AND ITS ASS to sheets bea	oclated civil
Blac	les were etch	ed, r	econdition	ed + a	node	jes. A	Lul
Essen	by was may	znafli	red + Cado	min P	lated	e. Frog	celler
was.	installed on	NC	606. Dis	e . is 8	6"+	settin	go are
- D	llows: Inde						Ø
as fo) Light	2 26	•	•			
	THAT THE ABOVE STATEMENTS	// ADE TOUE A	ND CORRECT TO THE BE	ST OF MY PHONE	EDGE		
CERTIFY	THAT THE ABOVE STATEMENTS	ARE INUE A	IND CORRECT TO THE BE	ST OF MI KNOWL	CDGC.		
Eds	SIGNATURE OF SUPERVISING	MECHANICA	A DE CERTIFICAT	- 1665.	5 ATING	March	4,1947
		TO BE COM	PLETED BY CAA REPI	RESENTATIVES			
APPROVE	ED SAGNATURE OF DES	NEE LA	e ne	NUMBER /S	3	DATE	17.1945
REJECTE FORWARD ENGINEE	DED FOR SIGNATURE OF INSP	ECTOR		ZACC		SATE S-9-	40
APPROVA		m) (/ NIWHON	JL REII	NSPECTED	1 / /	18

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BUREAU NO. 41-R052.1
APPROVAL EXPIRES DECEMBER 31, 1948

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

			. (
INSTRUCT	10NS - This form must be f rcraft, propeller, engine,	illed out	in duplicate each	time a major r	epair and	or alteration	on is made
(4) Po	r an Aircraft - Complete i	tems 1, 2,	Ra. 4. 5. 6. and 7	and submit to	CAA repr	esentative for	or approval.
(B) Fo	r a Component Installed in	an Aircra	aft - Complete items	1, 2, 3(b, c,	or d, wh	ichever is a	pplicable),
4,	5, and 6, and submit as d	escribed i	in (A) above.				
(C) Fo	r a Spare Component - Comp	lete item	ns 3(b, c, or d), 5,	and 6, and s	ubmit to	CAA represen	ntative for
ap	proval. When approved, re rcraft. At that time, ite	tain both	copies of this ic	orm with the co	mponent u stalling	ntil installa	ation on an h will then
fo	rcrait. At that time, ite	n (A) abov	A6.				
	MAKE		MODEL	SERIAL NO	•	CAA IDENT	I FICATION MARK
AIRCRAFT	Grumman		. 0-21A	1152		NC 60	06
	NAME (Pirst; middle, last)	ADDRESS (Street at				
OWNER	State of New York		,			•	
OWNER			Amenda Budld	4~~ Albam	7 N	♥	
CILL IN	Conservation Dept. INFORMATION IN THIS ITEM O	MIV FOR TH	Arcade Build	TING HIDGILY	10 170	1.	
FILL IN	INFORMATION IN THIS FILM O	MLI FOR II	TE UNIT REPAIRED AM	T ALTERED			(Chapk)
UNIT	MAKE		MODEL	SERIAL	10.		WORK (Check)
• • • • •				<u> </u>		MAJOR REPAIR	MAJOR ALTERATION
41000467	· (An	describe	d in item 1 above	1	[
AIRCRAFT		0000	u in item i ====	,		XX	l
PROPELLER	l .						
LADE OR JB	·		•			•	ŀ
00	 	 					
ENGINE					}		{
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	TYPE AND MANUFACTURER			Ì],]
INSTRUMENT	T			-	1		ļ .
		L					
The follow	wing items are to be completed until	eted by rep	pair or alteration a	gency. However	in the	Case OI a spa	recomponent,
completed	ll not be completed until by the installing agency,	if applic	able.	1 II OH WALLE	166	115 Came,	em 4
	EMPTY W DOS P (PO COds)* EM	PTY CENTE	B 9 9 10 Y (Inche	from datum)+	USEFUL L	OAD (punds)*	_
• AIRCRAFTI	J - 111						
	AU. WILLIA	· • /2	dance /	DI Kraa	tock		784
	repairs and/or alterations		plance / Cl	port 10	tock		784
APTER the	repairs and/or alterations AGENCY WHICH MADE REPAIRS	describe	d below were made.	port lo	tock	1. /	784
APTER the	AGENCY WHICH MADE REPAIRS	describe AND/OR AL	d below were made. TERATIONS (Check)	port W	toch	CERTIFI	ED MECHANIC
APTER the	AGENCY WHICH MADE REPAIRS	describe AND/OR AL	d below were made. TERATIONS (Check) STATION NO. 115	por a	tock	CERTIFI	
APTER the	AGENCY WHICH MADE REPAIRS FACTURER APPROV	AND/OR AL	d below were made. TERATIONS (Check) STATION NO. 115	SPECIFY)	logh ().)		ED MECHANIC
APTER the	AGENCY WHICH MADE REPAIRS	AND/OR AL	d below were made. TERATIONS (Check) STATION NO. 115	SPECIFY)	logh ().)		ED MECHANIC
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APTER the KIND OF MANUF	AGENCY WHICH MADE REPAIRS FACTURER	AND/OR AL	d below were made. TERATIONS (Check) STATION NO. 115 RESS (Street and num ROOSEVELT Fiel	(SPECIFY) ber, city, son d, Mineola,	o, and of	Jan.	ED MECHANIC RK ACCOMPLISHED
APTER the	AGENCY WHICH MADE REPAIRS FACTURER NAME Aero Trades Inc.	AND/OR AL VED REPAIR ADDR	d below were made. TERATIONS (Check) STATION NO. 115 RESS (Street and num ROOSEVELT FIEL INCE WITH PART 18 OF	(SPECIFY) bor, city, son d, Mineola,	o, and at	Jan.	ED MECHANIC RK ACCOMPLISHED 16, 1948 SOCIATED CIVIL
APTER the KIND OF MANUF	AGENCY WHICH MADE REPAIRS FACTURER NAME Aero Trades Inc. TION OF WORK ACCOMPLISHED IT IS MANUAL 18. (If more than 18.)	AND/OR AL VED REPAIR ADDR	d below were made. TERATIONS (Check) STATION NO. 115 RESS (Street and num ROOSEVELT FIEL INCE WITH PART 18 OF	(SPECIFY) bor, city, son d, Mineola,	o, and at	Jan.	ED MECHANIC RK ACCOMPLISHED 16, 1948 SOCIATED CIVIL
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RIGHT AILERON

Spliced tube spar.

Made up and installed two new ribs.

Recovered, doped and painted aileron.

Water tested hull.
Installed rebuilt right pontoon.
Installed new front and rear right pontoon struts.
Installed new right pontoon rear attaching fitting.
Installed landing gear warning system connected to flap operating handle.

AROTADES

ROOSÉVELT FIELD

MINEOLA; L.I.; N.Y.

C. A. A. COPY

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DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BUREAU NO. 41-R032.1 APPROVAL EXPIRES DECEMBER 31, 1948

	REPAIR AND ALTER	ATION FORM (AIRC	RAFT, PROPELL	ERS, ENGINES, INST	TRUMENTS)			
of an ai (A) Fo (B) Fo	10NS - This form must be rcraft, propeller, engine r an Aircraft - Complete r a Component Installed	e, or instrument, a items 1, 2, 3a, 4, in an Aircraft - Co	s follows: 5, 6, and 7 a mplete items 1	nd submit to CAA re	presentative fo	or approval.		
4, (C) Fo ap ai	5, and 6, and submit as r a Spare Component - Component - Component. When approved, rcraft. At that time, i rward forms as described	described in (A) a nplete items 3(b, retain both copies tems 1, 2, and 4 mu	c, or d). 5, a of this form	nd 6, and submit to	o CAA represer	ntative for		
· AIRCRAFT	MAKE SERIAL NO. CAA IDENTIFICATION MARK							
• OWNER	Conservation Dept ADDRESS (Street and number, city, zone, and state)							
FILL IN	INFORMATION IN THIS ITEM	ONLY FOR THE UNIT	REPAIRED AND/C	R ALTERED	.	_ 		
UNIT	MAKE	. MODEL		SERIAL NO.		YORK (Check) Major alteratio		
• AIRCRAFT	(4	a described in it	em 1 above)					
ROPELLER		Wel 2030	-235	104031				
LADE OR	Constant Speed	Blades 616	79-12	277222				
• ENGINE				277222				
• INSTRUMENT	TYPE AND MANUFACTURER					·		
item 4 wil	wing items are to be comp ll not be completed unti by the installing agency	l such component, if applicable.	is installed	in an aircraft. At	this time, it	recomponent, em 4 will be		
• A I RCRAFT	See We	4/4 7/5a	lance 12	esect Ret	told (Pounds).	1784		
	repairs and/or alteratio							
KIND OF MANUF	AGENCY WHICH MADE REPAIR FACTURER APPR	S AND/OR ALTERATION OVED REPAIR STATION	1 NO. 182	PACTERY)	CERTIFI	ED MECHANIC		
• AGENCY	PESTER'S PROPELLER SER	FICE THE.	reet and number	r, city, zone, and s	1 .	K ACCOMPLISHED		
	MINEOLA, NEW Y	ORK	· · · · · · · · · · · · · · · · · · ·		17,0	5/4/		
DESCRIPTION OF WORK ACCOMPLISHED IN ACCORDANCE WITH PART 18 OF THE CIVIL AIR REGULATIONS AND ITS ASSOCIATED CIVIL AERONAUTICS MANUAL 18. (If more space is needed, continue on reverse, or attach separate sheets bearing sircraft identification mark) Blades were etched, reconditioned + anadygad. Hub								
Blad	les were etch	ed, recon	delioned	· + anoun	0	-0		
assembly was magnafluned + Cadmin Plated. Propeller								
	installed on	NC606.	Die 1	28'6" +,	settings	. are		
					· ·			
as follows. Index is 26) Ligh is 26								
	Low	10 11°						
CERTIFY	THAT THE ABOVE STATEMENTS	ARE TRUE AND CORR	ECT TO THE BES	T OF MY KNOWLEDGE.				
Ed	mund I. I	Veine	AYE	- 14655	march +	1, 1947		
SIGNATURE OF SUPPRIVISING MECHANIC CERTIFICATE NUMBER AND RATING DATE TO BE COMPLETED BY CAA REPRESENTATIVES								
	SIGNATURE OF DES		BY CAA REPRE	SENTATIVES NUMBER	DATE	· · · · · · · · · · · · · · · · · · ·		
APPROVE REJECTE	D Carl	My holm	DAM	1 153	Jan /	7,1948		
FORWARD ENGINEE APPROVA		en (7.) 13.	intost	Z ACCEPTED REINSPECTE	1119-			

1372

SPARTAN AERO REPAIR Central Airport Camden, N. J.

The following parts were used in the overhaul of P & W R-985 AN-3 Engine Serial Number 201777.

Quan.	Part No.	Description
1 ea	3965	Gear
l ea	35081	Pin
l ea	59 189	011 Screen
l ea	2612	Gasket
l ea	233	Gasket
l ea	117	Bearing
18 ea	8230 7	Connector
4 ea	16028	Spacer
l ea	27206	Primer tubing essy
l ea	91341	Plug
l ea	380194	Gasket Set
l ea	3503	Gasket
2 ea	48159	Gasket
l ea	9035	Lock
l ea	12769	Bearing
4 ea	12768	Beering
l ea	104	Bearing
1 68	122	Bearing
2 68	33455	Ring
l ea	30	Pin
l ea	104749	Washer, Starter shaft
4 68	45535	Pipe Assembly
2 ea	9016	Bearing
4 00	78643	Plug, Elbows
90 ft		Packard Ignition Cable
2 ea	299	Screws .
9 ea	53616	Piston Ring
18 ea	2 7 05 7	Piston Ring
9 ea	13681	Piston Ring
18 ea	17097	Piston Ring
l ea	5 621 0	Gasket Set
2 ea	2612	Casket
2 ea	820	Gasket
2 ea	11468	Packing
12 ea	153	Rivets
79 ea	4614	Pin
l ea	8 711-1 0	Spacer
8 éa	3978 5	Knuckle Pin
9 ea	31795	Piston Pin
l ea	35081	Pin

F. M. J. M.

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CEPT OF COMMUNES

S. ARTAN AERO REPAIR Central Airport Camden, N. J.

ENGINE TEST LOG

Owner	\mathcal{S}_{P}	ARTAN -10-48	Eng	gine Make	Pal	w	Reason	for T	est Run	MAJOR
Date _	13	-10-48	Sea	ries <u>R</u>	985- 1	113	Total	Run-in	Time _	
Shop 0	rder No.	332	- Mfg	z. No.	20177	7				
		•							•	•
1		Man.	Oil	Oil In	Oil Out	Puel	Fuel	Oil	Head	
Time	R.P.M.	Fress.	Press.	Temp.	Temp.	•	Ġ	Flow		REMARK
9:30	800	17	75	75°F	110°F	i	1b.HR		250	
10:00	1000	18	78	75	125	3.5			273	
10'30	1000	18	77	110	142	3.5			300	
11',00	/000	17	80	87	135	3.5	38		300	
11:45	1200	18	80	88.	136	3.5	47		305	
3',15	800	17.5	75	85	125	3.0	25		260	
3;30	1200	17.5	80	85	140	3.5	43		3/0	
4:00	1200	17.	82	93	145	3.5	44		3/5	ومناه جورجو بالمداوا واحتاداتها فيالكون ويرجانها لويدادوال وميانيا
4:30	1400	19.0	82	90	140	3.5	52.		350	
5,00	1400	19.5	80	90	145	3.5	53		350	والمارة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة
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		29.5	_	90	160	4.0	142		450	
<u></u>	2/00	B	90		170.				447	
RPM FULL THROTTLE 2250 - 38"HG. R. MAG. L. MAG.										
ENCINE RUN IN BY SINGley O.K. 'd BY Whalson FINAL CHECK BY E.S.										
PREPARED FOR STORAGE, DATE 5.10-48 BY Sixcles										

ANGENING OF TRUE AND

AERO TRADES ROOSEVELT FIELD MINEOLA, L. I., N. Y.

WEIGHT & BALANCE

CAA. IDENT. MARK NC 606

Aircraft Weighing

and

Loading Schedule

Serial No. 1152

Type - Grumman Amphibian

Model G-21A

NC 606

Prepared by:

Aero Trades, Inc. Roosevelt Field Mineola, L.I., N. Y.

For:

State of New York Conservation Department

ENLINEER.

DATE

JAN. 14 1948

DATE

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WEIGHT & BALANCE

CAA. IDENT. MARK
NC 606

References (a) Aircraft Specification A-654-3.

Aircraft was not re-weighed, and computed weight of 6216.2 lbs. recorded on Repair and Alteration form of August 8, 1947 accepted as a basis for following computations.

Rated Horsepower - 2 at 400 HP each Therefore Min. fuel = $\frac{800}{12}$ = 66.6 gals. Therefore Min.oil = 800 = 10.7 gals.

C.G. Range - Forward (20.5) (15.2% M.A.C) Rearward (33.0) (28.0% M.A.C)

Datum - L/E Wing at fuselage.

Summary:

Airplane Weight empty	6216 lbs.
Empty CG (% M.A.C.)	17.8 %
Useful Load	1784 165
Max. Baggage in Forward	
Compartment	276 lbs.
Max. Baggage in Rear	
Compartment	233 lbs.
Max Baggage at any time	509 lbs.

PREPARED BYOU. S. LOWER ENGINEER.

DATE -**Jan. 14** 1948. Paul My kohn DAMI #153

DATE 17, 48

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WEIGHT & BALANCE

CAA. IDENT. MARK

NC 606

Actual Weight and C.G. Computations

Empty weight as recorded on Repair and Alteration form dated August 8, 1947 was accepted as correct.

All equipment listed on pages 8 and 9 of this report was in place.

Aircraft empty (computed)

Wt. 6216 Moment 143020

C.A.A. Datum to empty (computed) C.G. = $\frac{143020}{6216}$ = 23.01

C.G. in % of M.A.C. = (23.01 - 5.7) x 100 17.8% 97.4

Useful Load = 8000 - 6216 = 1784 lbs.

PREPARED BY

CHIEF ENGINEER.

DATE

JAN. 14 1968

Paul Myhob

Jan

DATE

·



WEIGHT & BALANCE

CAA. IDENT. MARK
NC 606

SAMPLE LOADING

	Wt.	Index Units
Basic Weight (incoil 15 gals.)	6499	562.52
Plus items of useful load.		
<u>Fuel</u>		
90 Gallons	540	51.0
Passengers (3)		
1 - Row 1 2 - Row 2	170 340	10.2 30.26
Baggage		
Rear - 200 lbs. Fwd 100 lbs.	200	46.0
Take-off G	ross 7849	699.98
Less Fuel	540	51.0
Landing Gr	o s s 7309	648.98

Referring to graph both values - Take-off and Landing are withothe C.G. Range and therefore satisfactory.

DREPARED BY J. G. WAKO CHIEF ENGINEER DATE Jan 14-1948 APPROVED BY Caul Hykohi DATE Jan 17,48

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WEIGHT & BALANCE

CAA. IDENT. MARK
NC 606

Extreme C.G. Limits

	Wt.	Arm	Moment/1000
Forward Limit: Computed empty weight Oil (15 gals.) Fuel (67 gals.) Pilot Co-Pilot Baggage (Fwd. Compt.)	6216 113 402 170 170	23.01 8.0 30.0 - 5 - 5 -65	143.02 .904 12.06 85 85 - 6.5
	7171	20.61	147.784

Allowable forward limit = 20.50

Aft Limit:			•
Computed empty weight	6216	23.01	143.02
0il (15 gals.)	113	8.0	.904
Fuel (96 gals.)	576	30.0	17.28
Pilot	170	-5	85
2 Passengers (Row 3)	340	62.0	21.08
2 Passengers (Row 4)	34 0	102.0	34.68
Rear Baggage (Max.)	233	169	39.377
	7988	32.0	255.491

Allowable limit - 33.0

Placard	Max.	Baggage	in	Forward Compartment	=	276	lbs.
Placard	Max.	Baggage	in	Rear Compartment	#	233	lbs.
•	Max.	Baggage	áti	any time	-	509	lbs.

S.B. WOWLER.

DATE -

Paul Hylohi DAM # 153

DATE fan 17, 48

LOADING CHART.

LOADING DATUM 65" FOR'D OF CAA DATUM.

NOSE CARGO C.G.

Row	UNITS
1	-
2	1513
3	21.59
4	28.39

			Row	UNITS
P	•		1	10.5
0	0		2	15.13
0	0		3	21.59
0	0		4	28.39
_	لسر	'		

PASSENGER AT 170 lbs.

CO- PILOT CONSIDERED
AS A PASSENGER IN ROW!

BASIC LOADING

THE FOLLOWING VALUES APPLY TO THIS AIRPLANE AS LICENCED.

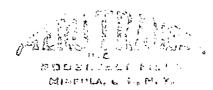
ITEM	WEIGHT	ARM	UNITS
EMPTY WEIGHT	6216	88.01	547.07
PILOT	170	60.0	10.5
OIL (IS GALS)	113	73.0	8.25
TOTAL	6499		565-52

This eights shall be so I not be a the out the limits with of the engty woight out also form of matrix to I chall lie between the forward out resemble. I limits for the corresponding fatul weight as shown on origin on pack ding to me.

index entro of emeta select, distribution (1) (1) cycles selection to include a contract the selection of th

. Two cases shall be connected (a) with were fund.

(b) Actual faul it is out.



Index Units - 1. of . o. o. o. o. o. 120 CM BIN

PREPARED BY.

DATE APPROVED BY

DATE.

PREPARED BY.

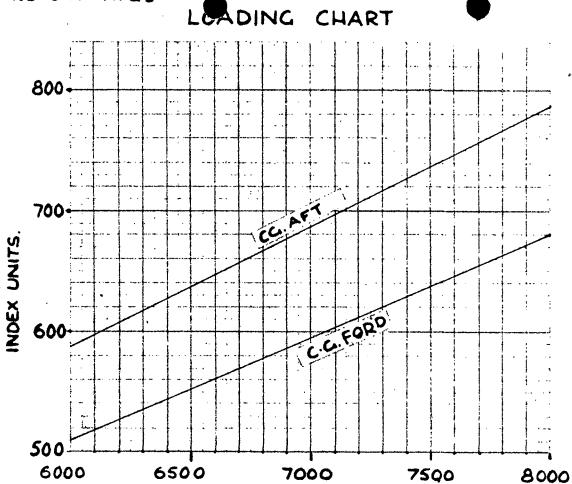
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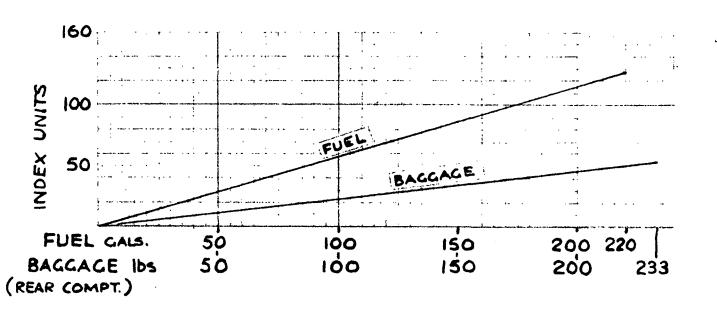
DATE.

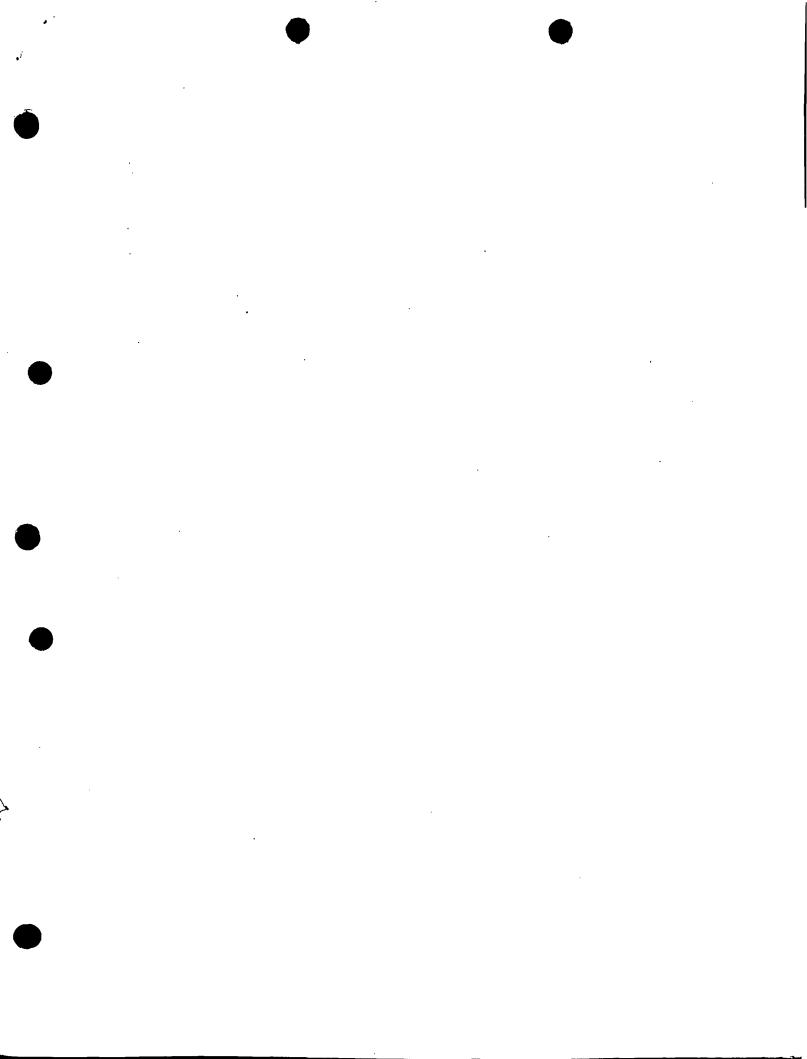
. • . : 1 -. . . . • •



GROSS WEIGHT

FOR'D BAGGAGE ALWAYS = ZERO UNITS.
CAPACITY 276 lbs. MAX.







ROOSEVELT FIELD

WEIGHT & BALANCE EQUIPMENT LIST

CAA. IDENT. MARK
NC 606

SPECIFICATION No. A-654-3

OTHER REFERENCES

G-21A

	PMENT			MISCELLANEOUS & SPECIAL EQUIPMEN	1	1 .
No	No.:	No.	Qty.	ITEM (Description)	Weight	Arm
		101 102 103 104 105 106 305	2 2 2 2 2 1	Engine Ring Cowlings Oil Radiators Starters (Eclipse E-160) Generators E5A (50 Amp) Batteries 30 x 7 Wheels & 32 x 8 Tires 12.50 S.C. Tail Wheel & 6 Ply H.D. Nylon Tire	56 26 77 52 75	-36 0 -12 -23 - 7
		108 302 201 110	1 2 2 2 2 1	Press. Fire Extinguisher (Lux A-1) Controllable Metal Propellers Propeller Controls Wing Tip Floats Generator J Boxes Generator Dual Control Box Leather Chair Unholstery	21 308 13 87 2 2	-33 -52 -23 -23
		205A 297 F 217A 217B 221 226	#1 1 1	Antenna Mast (Mid Ship) Anchor & Line Boat Hook Work Platform Enlarged R.H. Door Portable Fire Extinguisher	2 19 3 9 7 2*	-10 -88 -60 /189 /118
•	,, <u>,</u> , <u>,,</u> <u>,,</u>		2 1set 1 1 1	C-O Type B Propeller Spinners tBomb Release Controls and Cables Radio Compass Chassis Radio Compass Inverter Radio Compass Loop Radio Compass Rectifier Radio Compass Control Head	12.3 10.37 5.6	/146 -52 /15 /158 /169 /187 /152
			1 1 1 1 1 1 1 1	U.T6 Transmitter U.T. Control Head Motor Reel Motor Reel Head Sr. Loading Coil Sr. Loading Coil Antenna Relay Box	27 1.8 1.2 6.8 1.8	/166 - 9 /148
			1 1 1 1 1	Junction Box RCBC Tuner RCBC Power Supply Radio Rack Radio Control Panel RCBC Loop	1.2 5 18.8 11.0 2 6.8	/147 - 152 /162 - 63
	rease RED BY		1 1 Stands	RCBC Loop Azimuth Radio Compass Azimuth P.N. ard DATEAPPROVED BY	1.5 1.19	

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in the state of th



WEIGHT & BALANCE EQUIPMENT LIST

CAA. IDENT. MARK
NC 606

SPECIFICATION No.

A-65**4-3**

OTHER REFERENCES

G-21A

EQU	IPMENT	REF.		MISCELLANEOUS & SPECIAL EQUIP	PMENT	
No.	No.	No.	Qty.	ITEM (Description)	Weight	Arm.
		*****	1 2 1 1	Trailing Antenna Mast Mike Head Phone Box Marker Beacon Receiver Range Filter Block Loop Dehyrotor	.8 4.2 1.1	/277 - 9 /174.8 - 9 /194
نما. ۱۵. کا.(ARED BY	روب. EER	•	JAN 14.1948 Paul My Weller DAMI #153	DATE	

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<i>i</i> •			<u> </u>				
FORM ACA-305	DEPARTMENT OF COL		BUDGBT BURBAU NO. 41-R041.2 APPROVAL EXPIRES PBBRUARY 15, 1947				
APPLICATION FOR AIRWORT ANNUAL INSPECTIO		/ OR .	Please submit this	STRUCTIONS s form to the Civil Aero- tion Field Representative,			
APPLICATION (Check)	CAA IDENTIFICATION						
AIRWORTHINESS CERTIFICATE	X NC NX	NR OTH	ER (Specify)				
	AIRCE	RAFT		1			
MAKE Grumman		MODEL	-G-21A				
	CTURER'S SERIAL NO.	DATE MANUFACT	ured tober 1942				
606	TTDC I		1942				
MAKE		MODEL		RATED H.P.			
Pratt & Whitney			5-an-6b	1,00			
(Check whether) NEW XX USED OVERHAULED	· IF OVERHAULED, STATE BY			E OF OVERHAUL			
(Check which)	ISTERED WITH THE ADMINIST	RATION	APPLICATION FOR REG	ISTRATION AND BILL OF SALE 502) ATTACHED			
CHUER'S NAME		PERMANENT AC	DRESS (Street and N	o., City, Zone, State)			
State of New York Conserv	ration Department	Arcade	Building, Alba	ny 7, N. Y.			
ATTACHMENTS (Check which)		T THE ABOVE S	TATEMENTS ARE TRUE	46 (Valor)			
X ACA-319 X WEIGHT AND BALA		/	Stall of hew	fore, Egitawalin A			
ACA 805 SPECIAL APPROVA	ì			69:-			
ACA-805 DATA, DRAWINGS,		701.0	ON WEN OR	Clauston Pilo			
	Jan. 17,		- H. M.	The suplant of			
FORM ACA-305a (FORMERLY ACA-30		NSPECTION R	EDODT	11112 00-1			
	y a CAA inspector or a			esentative)			
IT HAS BEEN DETERMINED THAT THE A							
LISTING IN INSPECTOR'S HANDBOOK, CHAP. XVIII	AIRCRAFT SPECIFIC	CATION -	ALRWOR	THINESS DIRECTIVE			
	SERIAL NO. EFFECTIVE NOTES 0-654-3 complied wi	th	NO. AD EFFE	CTIVE NOTES			
OTHER (Describe)				al space is required, use			
·	•	reverse).					

FORM ACA-319 APPROVED BY		1	F. AND RATING NO.	DATED			
owner)	Paul Nyholm	A&El	6576	Jan. 16, 1948			
FORM ACA-1362 CERTIFICATE VA	NLID TO (Specify date)						
AIRCRAFT AIRWORTHINESS CERTIFICATE WITH OPERATION LIMITATIONS FORM (ATTACHED) WAS ISSUED							
FINDINGS							
DESIGNED'S SIG	DEUR LANDING			DATE			
	Paul Wyhol	m :	DAMI 153	Jan. 17, 1948 <==			
UNAIRWORTHY CAA INSPECTOR	earl Design		ACCEPTED REINSPECTED	1-9-45			
REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item Yes NO)							
Approved Operation Limi							
in the aircraft.	. Salutana (1 ozni 207)	ac requi	- ou of Oanana	CHO TO WARTEDTE			
Weight and Balance comp	nutations are curre	ent, and co	rrect.				
Aircraft is based at Al		and co					
To outly at AI	av			Pury 48			

DEPT OF COMPENSE

FEB 13 10 42 AM 348

MAIL ROOM-!
WASHINGTON

1-M008

84. MA S4 8

DEPARTMENT OF COMMERCE

BUDGET BUREAU NO. 41-R052.1

11-7-46)		CIVIL	AERONAUTICS ADMINIS	TRATION	APPROVAL EXP	IRES DECE	MBER 31, 1948
	REPAIR AND ALTERA	TION FORM	(AIRCRAFT, PROPE	LLERS, ENGINE	S, INSTRUME	NTS)	
of an ai	IONS - This form must be f rcraft, propeller, engine, r an Aircraft - Complete i	or instru	ment, as follows:		•		ľ
(B) For	r a Component Installed in	an Aircra	ft - Complete items	1, 2, 3(b, c,	or d, which	ever is a	pplicable),
(C) For appain	5, and 6, and submit as d r a Spare Component - Comp proval. When approved, re rcraft. At that time, ite	lete items tain both ems 1, 2, a	s 3(b, c, or d), 5, copies of this fo nd 4 must be comple	rm with the co	mponent unti.	l installa	ation on an
AIRCRAFT	rward forms as described i MAKE Grumman	n (A) abov	MODEL G21A	SERIAL NO			1FICATION MARK
OWNER	NAME (First; middle, last State of New York)	Arcade Buil				
FILLEIN	Conservation Dept.	NIY FOR TH					
- · · · · · · · · · · · · · · · · · · ·	T			1	N A	ATURE OF V	NORK (Check)
UNIT .	MAKE	<u> </u>	MODEL	SERIAL	MAJO	OR REPAIR	MAJOR ALTERATION
A I RCRAFT	<u> </u>	described	in Item 1 above)	· .			。 x
LADE OR		•				• •	
ENGINE				,			.2
INSTRUMENT	TYPE AND MANUFACTURER						
tem 4 wil	ving items are to be completed until by the installing agency, EMPTY WEIGHT (Pounds)* EMPTY WEIGHT (POUNDS)* EMPTY WE	such comp	ponent is installed able.	i in an aircra	ft. At this	time, it	em 4 will be
A I RCRAFT	6216.2		3.03		1783.8		1
	repairs and/or alterations						
KIND OF MANUF	AGENCY WHICH MADE REPAIRS FACTURER APPROV		STATION NO-				ED MECHANIC
	NAME		SS (Street and num		e, and state)	DATE WOR	RK ACCOMPLISHED
AGENCY	Charles Groff		io Aviation Co ox 214, Vandali			6-	30 –47
AERONAUT	ION OF WORK ACCOMPLISHED TICS MANUAL 18. (If more lection mark)	IN ACCORDAN	NCE WITH PART 18 OF aded, continue on r	THE CIVIL AIR	REGULATIONS A ach separate s	AND ITS ASS	SOCIATÉD CIVIL oring aircraft
	led Eclipse Type E5A or control box and w				ox on left	engine	. Modified
ee atta	ached sketch for wir	ing deta	ils. See reve	rse side fo	or new wei	ght and	balance.
•		٠.	· ·				
·	•						1
ERTIFY T	THAT THE ABOVE STATEMENTS	ARE TRUE A	NO CORRECT TO THE B	EST OF MY KNOW	LEDGE.		
CK	alu I Gro	4	. A & E	413019			8, 1947
	SIGNATURE OF SUPERALZING	HERNANIC TO BE COM	CERTIFICA PLETED BY CAA REP.		RATING	DAT	,
APPROVE REJECTE	Chart 36 M6	rtin Bor	Borel	NUMB E	403	^{AT} A ugus	t 8, 1947
FORWARD ENGINEE APPROVA	RING	Lin	vao	12.	CEPTED D	Rugu	st14.19
372							7

<u>Item</u>	Weight	Arm	Moment
Aircraft empty wt. Add E5A generator Add 2 generator J boxes Generator dual control box		23.20 - 23.0 0.0 - <u>9.0</u>	143636.0 \$\begin{align*} 598.0 \\ 00.0 \\ \frac{18.0}{18.0} \end{align*}
	6216.2	•	144252.0

 $\frac{144252.0}{6216.2}$ = 23.03 = new empty C.G.

Forward Limit

Empty wt.	6216.2	23.03	144252.0
011 - 15 gal.	113.0	≠ 8.0	904.0
Fuel - 67 gal.	402.0	/30.0	12060.0
Pilot	170.0	- 5.0	- 850.0
Co-pilot	<u> 170.0</u>	<u>- 5.0</u>	- 850.0
- ·	7071.2		155516.0

 $\frac{155516.0}{7071.2}$ = 21.9 = new forward C.G.

MASHINGTON OF COMMERCE!

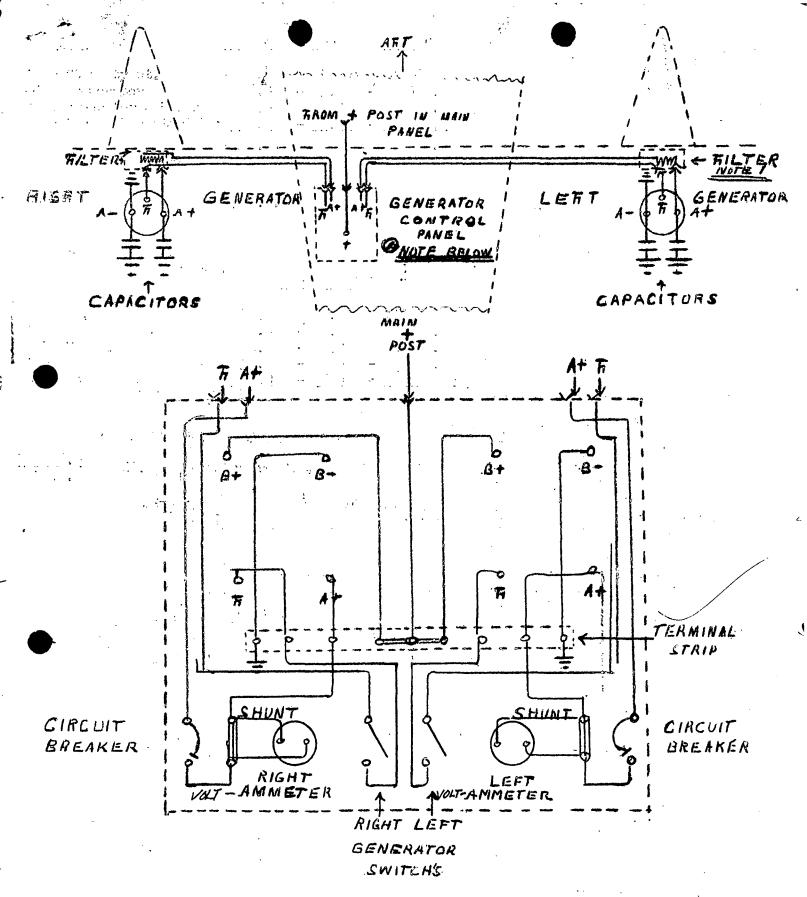
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- 1 FILTERS LOCATED IN JUNTION BOX ON LEFT AND RIGHT FIREWALLS.
- @ PANEL LOCATED OVER HEAD, RIGHT SIDE IN GOCKPIT.
- A NO 6 WIRE USED FOR A- AND A+.
- B NO 16 WIRE USED FOR FELD WIRE AND AMMERER.

AUS S S PN 947

MAIL S S PN 947

MASHINGTON

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

BUDGET BUREAU NO. 41-R052.1 APPROVAL EXPIRES DECEMBER 31, 1948

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

		lilled out in duplicate each t	ime a major repair a	nd/or alteration	n is made
of an aircraft, propeller, engine, or instrument, as follows: (A) For an Aircraft - Complete items 1, 2, 3a, 4, 5, 6, and 7 and submit to CAA representative for approval.					
(B) For a Component Installed in an Aircraft - Complete items 1, 2, 3(b, c, or d, whichever is applicable),					
	5, and 6, and submit as come a Space Component . Com	escribed in (A) above Olete items 3(b, c, or d), 5,	and 6. and submit t	o CAA represen	tative for
ap	proval. When approved, re	etain both copies of this for	m with the component	until installa	tion on an
	rcraft. At that time, ite	ems 1, 2, and 4 must be completed in (A) above.	ed by the installin	g agency, which	will then
T. T.	MAKE	. MODEL .	SERIAL NO.	CAA -DENT	FICATION MARK
. AIRCRAFT	Crumman	G-210	1152	606	
	NAME (Pirat, middle, last	ADDRESS (Street and	number, city, zone,	•	
• OWNER	state of N.Y. Co		lding Albany	7, N •Y •	•
FILL IN	INFORMATION THE THIS ITEM O	NLY FOR THE UNIT REPAIRED AND	OR ALTERED		
UNIT	• MAKE	MODEL	SERIAL NO.	NATURE OF WO	
		<u> </u>		MAJOR REPAIR	MAJOR ALTERATION
• AIRCRAFT	· ·	described in item 1 above)			√
PROPELLER BLADE OR	1			.	
HUB					
• ENGINE	•			1. 1	
	TYPE AND MANUFACTURER	•		 	
- INSTRUMENT		1			
	•				
item 4 will completed	11.not be completed until by the installing agency,	eted by repair or alteration ag such component is installed if applicable.	in an aircraft. At	this time, ite	recomponent, em 4 will be
A I RCRAFT	EMPTY WEIGHT (Pounds)* EN	APTY CENTER OF GRAVITY (Inches	from datum)* USEFUL	LOAD (Pounds)*	
ATRONALI	0700.05		.	ATA	
		23.20		1814	
		described below were made.		11316	
KIND OF	AGENCY WHICH MADE REPAIRS	AND/OR ALTERATIONS (Check)		_*	ED MECHANIC
	AGENCY WHICH MADE REPAIRS	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO.		_*	ED MECHANIC
KIND OF	AGENCY WHICH MADE REPAIRS	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO.	SPECIFY)	CERTIFIE	
KIND OF	AGENCY WHICH MADE REPAIRS ACTURER APPROV	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and numb Layton Union	specify)	CERTIFIE	K ACCOMPLISHED
KIND OF MANUF	AGENCY WHICH MADE REPAIRS ACTURER APPROV	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO.	specify)	CERTIFIE	
AGENCY AGENCY TO DESCRIPT AERONAUT	AGENCY WHICH MADE REPAIRS ACTURER APPROV NAME I GO CONTOR ION OF WORK ACCOMPLISHED ICS MANUAL 18. (If more	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and numb Layton Union	Specify) Solution of the color	CERTIFIE CERTIFIE CUIT CONS AND ITS ASSO	K ACCOMPLISHED ACIO, 1947 DOLIATED CIVIL
AGENCY AGENCY TO DESCRIPT AERONAUT Identifi	AGENCY WHICH MADE REPAIRS FACTURER APPROVE NAME LOO CONTOR ION OF WORK ACCOMPLISHED TICS MANUAL 18. (If more cation mark)	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and numb Layton Unical Vandalia To accordance with Part 18 OF 18	SPECIFY) er, clty, zone, end of the clty	CERTIFIE CERTIFIE CUIT CONS AND ITS ASSO	K ACCOMPLISHED ACIO, 1947 DOLIATED CIVIL
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AGENCY AGENCY O DE SCRIPT AERONAUT identifi IND	AGENCY WHICH MADE REPAIRS ACTURER APPROV NAME LOO CONTOR ION OF WORK ACCOMPLISHED ICS MANUAL 18. (If more section mark) tulled the follo Section the rever Tand balance sections	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and numb Layton Unici) Vandalla (12 Co IN ACCORDANCE WITH PART 18 OF 1 space is needed, continue on re Wing Madlo Equipment se side) hoet attacted to to	SPECIFY) Clar of Control Chic Control Chi	CERTIFIE CERTIFIE CUIT CONS AND ITS ASSO	ACCOMPLISHED ACIO, 1947
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AGENCY AGENCY O DE SCRIPT AERONAUT identifi IND	AGENCY WHICH MADE REPAIRS ACTURER APPROVE NAME LOO CONTOR ION OF WORK ACCOMPLISHED ICS MANUAL 18. (If more cation mark) talled the following and balance some continuous	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and number 1970) VANDALIA (1970) IN ACCORDANCE WITH PART 18 OF 18 pace is needed, continue on resulting fladle liquipments at tacted to the second se	SPECIFY) FOR COLVEY SONO, and Colvey Sono, and Colvey Col	CERTIFIE GLOTO) DATE WORK JUIN IONS AND ITS ASSO	K ACCOMPLISHED ACTO, 1947 OCIATED CIVIL ring aircraft
AGENCY AGENCY O DESCRIPT AERONAUT Identifi LIND CERTIFY T	AGENCY WHICH MADE REPAIRS ACTURER APPROVE NAME LOO CONTOR ION OF WORK ACCOMPLISHED ICS MANUAL 18. (If more cation mark) talled the follo See on the rever T and balance s HAT THE ABOVE STATEMENTS	AND/OR ALTERATIONS (Check) VED REPAIR STATION NO. ADDRESS (Street and number 12 y ton 1 United) Vandalla (12 y ton 1 United) Vandalla (13 y ton 1 United) To Accordance with PART 18 OF 18 apace is needed, continue on resulting fladlo Equipment See Side) ARE TRUE AND CORRECT TO THE BE MECHANIC CERTIFICAT TO BE COMPLETED BY CAA REPR	SPECIFY) FOR COLVEY SONO, and Colvey Sono, and Colvey Col	CERTIFIE State) DATE WORK JUIN IONS AND ITS ASSO	K ACCOMPLISHED ACTO, 1947 OCIATED CIVIL ring aircraft
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Section (I)	Special Eq	linmont.		
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	60TI	20.10	<u>lloment</u> 120821	
Radio Compa s Chassis	\46.I I2.3	158.75 1 6 9	7318. 1955.	
" " Loop " " Rectifier	10\37 5\6	I87 I52	1944.8 851.3	
UT-6 Tranns.	3.76	-9 1 6 6,25	- 34 · 1 4488 · 1	a
" Control Head	8.I	-9 1 ₄₈	-16. 177.	S
" " Head .	\$.8 [↑]	-9	-6I. 197.	ຂ `ຸ່
One Sr. Loading Coil	8. 1.8	165 174.5	314	10
Antenna Relay Box Juntion Box	1.2	168.5 147	161.	
RCBC Tuner RCBC Power Supply	5 18.8	I 52 . §	-45. 2867.	
Radio Rack Radio Control Panel		162 () -9	1782 -18	•
RCBC Loop " " Azimuith	6.8 1.5	- 63.5 -32	-43I.80 - 48.0	
Radio Compass " Trailing Ant. Mast	I.19 I.8	-32 277	-38 · 498 · 6	4
Mike Head Phone box Marker Beacon Rec.	.8 \ 4.2 \	-9 174.5	732	
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DISTRIBUTÖR FOR LEAR RADIO

Dayton AIRADIO Incorporated AIRCRAFT RADIO SPECIALISTS

DAYTON MUNICIPAL AIRPORT P. O. BOX 167 VANDALIA. OHIO

Section (2)

Most Foward Limits

Items	WT.	ARM.	Moments
Empty VT	6186.21	23.20	143636.005
011 (I5 gls)	N 113	8	904.
■ 101(67)gls	. 402	30	12060.
ilot	170	→ 5	- 850.
Co-pilot	170	-5	- 850.
	7041.21	22.0	154900.005

Allowable Foward Limit 20.5

Section (3)

Host Rearward Lim	ilts	44	
201 tems	WT.	ARm	Lioments
Empty WY.	6186.21	83.20	143636.005
011 (15gls)	113	8	904
Fuel (67gls)	402	30	12060
Pilot	170	- 5	- 650
2 Pass. front	340	62	34680
2 Pass. rear	340	102	21080
Jය ළඳුය ලම	<u> 374 _</u>	<u> 169 </u>	63206
	7925.21	34.66	274716.005

Allowable rear Limits 33.00

Section (4)

 Baggage Reduction

 Ship wt
 7925.2
 34.6
 274716.005

 Baggage Comp. -94 lbs
 169.
 -15886.

 Ship wt.
 7831.2
 258830.01

258830.01 33.0 new Rarward Limit Baggage Comp. 3741bs reduction -94.1bs new Bag. Comp. 280 lbs

New allowable Daggage wt 280 lbs Placard Baggage comp 280lbs.

C.G. Range 20.5 to 33.0 New Empty WT 6186 lbs New Empty C.G. 23.20 Aft of Datum New Useful Load 1814 lbs

OEPARTHEHT OF COMMERCE

the Ha Small 1 311

MAIL ROOM-2 WASHINGTON UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE

OPERATION LIMITATIONS

NC 606

CI	VIL AERONAUTICS ADMINISTRATION						
ENGINE	P & W & Grumman R985-AN6B & MODEL G2LA	DATE MFRD. OCT. 1942	SERIAL NO. 1152	DESIGNATION 8PCL-Am- FbM	TYPE CERT.		
1	ENGINE AND AIR SPEED LIMITS NOT TO BE EVEEDED						

ENGINE AND AIR SPEED LIMITS NOT TO BE EXCEEDED

(All Values Are Maximum and Are NOT RECOMMENDED OPERATING LIMITS)

•		ENGINE	LIMITS	5			TRUE INDICATED	AIR SPI	EED
	MINUTES	ALTITUDE	IN, HG.	R. P. M.	н. Р.	FUEL OCT.		M. P. H. LAND	KNOTS SEA
TAKE-OFF	1	any	36.	5 230	450	87	CLIMB OR LEVEL FLIGHT	194	169
SEA LEVEL		5000	34.	5 220	0 400	87	GLIDE OR DIVE (Smooth Air Only)	225	198
ALTITUDE	FROM				•		FLAPS EXTENDED	110	96

*METO-MAXIMUM EXCEPT TAKE-OFF

	TAKE-OFF WEIGHT			ANDING WEIGHT
LAND 8000) SEA	8000	0008 ^{DIANI}	SEA 8000

OPERATIONS AUTHORIZED

C. G. Range is \$20.5 to \$33.0.

Datum - Wing leading edge at fuselage,

See Weight and Balance Report for Loading Information.

Harry M. Jones

ADDITIONAL OPERATIONS AUTHORIZED

(IF YES-SEE OVER)

THIS PLACARD MUST BE DISPLAYED IN VIEW OF THE PILOT (FOLD HERE)

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SORENIES OPERATIONS OF THE STREET OF THE STR

IF THIS FORM IS LOST OR DESTROYED, A DUPLICATE MAY BE OBTAINED FROM THE CERTIFICATION AND RECORDATION SECTION, AIRCRAFT AND COMPONENTS SERVICE,

CIVIL AERONAUTICS ADMINISTRATION, WASHINGTON, D. C., FOR \$2.00. (MONEY ORDER OR CHECK SHOULD BE MADE PAYABLE TO THE TREASURER OF THE UNITED STATES.)

FORM ACA-305	DEPARTMENT OF CO		BUDGET BUREAU NO. 41-R041.2 APPROVAL EXPIRES PEBRUARY 15, 1947
APPLICATION FOR AIRWORT	HINESS CERTIFICATE AND	/ OR	INSTRUCTIONS
ANNUAL INSPECTION			Please submit this form to the Civil Aero- nautics Administration Field Representative.
APPLICATION (Check)	CAA IDENTIFICATION		
AIRWORTHINESS CERTIFICATE	X NC NX) NR OTH	ER (Specify)
ANNUAL INSPECTION			
MAKE	Alrci	110051	
G-21-A Grumman		(3-21 -A
NC 606	1152	DATE MANUFAC	October 1942
	ENG	NE	
Pratt & Whitney		R 985	-AN6B RATED H.P. 450
(Check whether)	IF OVERHAULED, STATE BY		DATE OF OVERHAUL
NEW WUSED OVERHAULED			·
(Chock which)	STERED WITH THE ADMINIST	<u> </u>	APPLICATION FOR REGISTRATION AND BILL OF SALE IFORMS ACA-501 AND 502) ATTACHED
OWNER'S NAME			DDRESS (Street and No., City, Zone, State)
tate of New York,	Conservation Department		cade Building Lbany 7, New York
ATTACHMENTS (Check which)	I, CERTIFY THA	T THE ABOVE	STATEMENTS ARE TRUE
ACA-319 - WEIGHT AND BALAN	1	•	1 Ina L
ACA-337 SPECIAL APPROVAL	•		f. Me Vaux
ACA-805DATA, DRAWINGS,	1 2-7	15/	OR AUTHORIZED AGENT
ACA-317 UNAPPROVED DEVI	DATE	/ V	- Julie
FORM ACA-305a (FORMERLY ACA-30		INSPECTION R	
(To be completed by	a CAA inspector or a	designated	inspector or representative)
1T HAS BEEN DETERMINED THAT THE A	IRCRAFT DESCRIBED IN 305	ABOVE IS IN	CONFORMITY WITH THE FOLLOWING
LISTING IN INSPECTOR'S HANDBOOK, CHAP. XVIII	AIRCRAFT SPECIFI	CATION	AIRWORTHINESS DIRECTIVE
PAGE NO. T.C. NO. S	erial no. effective note 654-3 1,5,8a,8	s d	AD654 - frective notes
OTHER (Describe)		EXCEPTIONS,	IF ANY (If additional space is required, use
	•		
FORM ACA-319 APPROVED BY (Return to William)	m Kohler		F. AND RATING NO. DATED 2/14/47
FORM ACA-1362 CERTIFICATE VA		<u> </u>	
midgh of flykydokthyness /cept /f/gate/y/th/operation limitations form (attached) was issued (309 Pg.1)			
I DE CONSTRUE DE LA	NATURE AND INC.	1 = 40	DATE
AIRWORTHY FOOR	Armstrong. C.	AA DMIR	7/27/47
	SIGNATURE		ACCEPTED DATE 3/13/47
REASON FOR DISAPPROVAL, OR REVARKS	(Undicate if you have u	sed the rever	se to continue this or other item Yes No)
AD mandatory note #4			
This ship has been converted from a JRF-6B to a G21-A.			
			date and in airplane.
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Form ACA 337 (Rev. 3-31-45)

CLASSIFICATION

NATURE OF WORK PERFORMED

Major repair

Major alteration

Engine

Propeller

Instrument

Lan.

UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
WASHINGTON

Budget	Bureau	No.	41-R052.
Form A	pproved	l.	

_	APPROVED
_	DISAPPROVED
	Forwarded for engineering approval (Submit complete details)

E. W. 6011 (Actual) Useful Load 1989 E. C. G. 20.10" Aft of Datum

REPAIR AND ALTERATION FORM

AIRCRAFT—ENGINES—PROPELLERS—INSTRUMENTS

NC 606

	Aircraft Identification Mark No.
State of New York Conservation	on Dept.
Owner's name Owner's address Lake Placid, N. Y.	
Owner's address	
Aircraft manufacturer and model Grumman G21 A	Serial No. 1152
Engine manufacturer and model*	Serial No.
Propeller manufacturer and model*	Serial No.
Propeller blade model*	
Instrument name, manufacturer, and model*	
* To be filled in only for unit repaired or altered.	
REPAIR OR ALTE	RATION AGENCY
* Manufacturer. * * Approved repair	r station No. 17 * Certificated mechanic
Agency's name Grumman Aircraft Eng	· Corp•
Address Bethpage, N. Y.	Date of repair 2/14/47

The following work has been accomplished in accordance with Part 18, Civil Air Regulations. (For recommended practice refer to CAM 18.)

· [II blank space is insufficient for clear presentation, attach separate pages (8" x 10½" or multiples thereof) bearing aircraft identification mark]

Repairs made in accordance with Grumman Drawings and CAM 18 Manual.

Keel & Bottom repair.

Section of left and right bottom sheet part #12003-30 replace from main step to 43 inches fwd. and from Keel 8 inches outboard. Section of keel part # 12003-30 replaced from main step and spliced 99g inches forward. One bottom stringer part #12001-8 hetween main step sta. 16 part #12056 and sta. 13 part # 12053 replaced with new part.

Section of cabin side skin part #12003-12 replaced between sta. 16 part #12056 and sta. 20 part #12061 in area of center cabin window.

Cabin flooring replaced with new material and lined with metal including cabin walls up to bottom of windows.

*CHECK AGENCIES INVOLVED.

TO BE FILLED OUT IN DUPLICATE AND COMPLETED ON OPPOSITE SIDE

(1) When repair and alteration is identified by aircraft identification and serial number the original is to be forwarded through the appropriate Field Branch Office, and copy delivered to the owner of the aircraft. (2) When the repair and/or alteration of spare components is not identified this form must stay with the component until it is installed and the aircraft identification and serial number is entered on this form which is to be forwarded in the same manner as set forth in condition (1).

16-8168-5

NOTE: Submitted herewith are technical data, drawings. Weight and Balance Report, etc., as listed below.

Vacuum system amended in accordance with Ser. Bulletin 19 at this overhaul. This airplane converted from a JRF6B to a Grumman G21 A by Grumman Aircraft Eng. Corp. (A654-1 Mandatory Note #4 complied with).

SUPERVISING MECHANIC'S CERTIFICATE

William Kohler certifies that the foregoing statements are true of his own knowledge

Mechanic's Certificate No.

Caa file

WEIGHT AND BALANCE REPORT

GRUMMAN AIRCRAFT ENGINEERING CORPORATION

REPORT NO. W21-152

WEIGHTS AND BALANCE

OF

MODEL G-21A

SERIAL NO. 1152

LICENSE NO. NC606

(8 PLACE AMPHIBIAN)

References:-

Grumman Report No. 1276 (Prelim. Wt. & Bal. Report)

Grumman Report No. 1251A (Standard Equipment) Grumman Report No. 1252A (Special Equipment)

Date: 3/12/47

Prepared By:

Charles E. Lyman

Checked By:

Dorothy a. Bree

Dorothy A. Bree

Approved By:

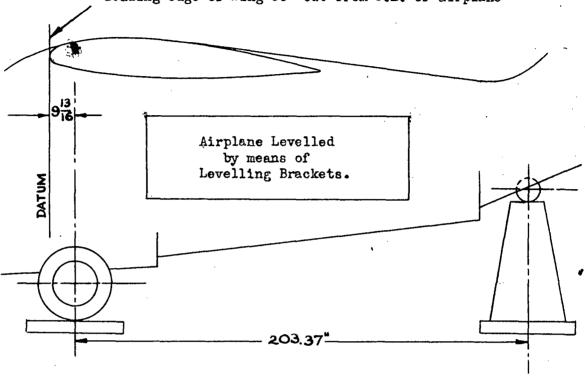
Robert J. Trimborn

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Aircraft Empty Weight.

(A) Empty weight as weighed (in level landing position)

leading edge of wing 30° out from C.L. of airplane



	Scale Reading	Tare	Net
Left Wheel	2739	-2	2737
Right Wheel	2970	0	29 70
Tail Wheel	<u>30h</u>	0	304
	6013		6011 - Actua

Weighing witnessed by - William Manny Lharles E. Lyman Charles E. Lyman

(B) C.G. Location, weight empty as weighed.

C.G. as weighed = $\frac{30h \times 203.37}{6011}$ = 10.29 inches aft of C.L. of axle.

Datum to C.L. of axle = 9.81 inches

C.G. as weighed is aft of datum: 10.29 + 9.81 = 20.10 inches.

Datum to L.E.M.A.C. = 6.32 inches (Page 5, Report #1226B)

REPORT NO. W21- 152

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(C) Weight empty as weighed includes the following:-

STANDARD EQUIPMENT

		Horizontal	
<u>Item</u>	Weight	Arm	Moment
101 2 - Engine Ring Cowls	56	- 36	-2016
102 "2 Oil Radiators	26	.0	0
103 2 - Starters (Eolipse E-160)	77	-12	-924
10h 1 - Generator (25 amp.)	26	-23	-598
105 2 - Batteries	75	-7	-525
106 2 - 30x7 Wheels & 32x8 Tires			
305 12.50 S.C. Tail Wheel & 6 Ply H.D. Nylon Tir	re ·	•	
108 Pressure Fire Extinguisher (Lux A-1)	21	-33	-693
302 2 - Controllable Metal Propellers	308	-52	-16016
201 2 - Propeller Controls	13	-23	-299
110 2 - Wing Tip Floats	87		•

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(D) Weight empty as weighed includes the following:-

SPECIAL EQUIPMENT

		•	Horiz	ontal
	<u>Item</u>	Weight	Arm	Moment
205-A	Leather Chair Upholstery	+110#	+77	+3080
207	Antenna Wast (Mid Ship)	2	-10	-20
217(a)	Anchor & line	19	-88	-1672
(b)	Boat Hook	3	-60	-180
221	Work Platform	9 .	+189	+1701
3	Portable Fire Extinguisher C-O Two Type B	13	+146	+1898
226	Enlarged R.H. Door	+2*	+118	+236
	Propeller Spinners	12	-52	-624
	Bomb Release Controls & Cables	10	+15	+150

^{*} Increase over standard.

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Most Forward C.G.

	• •	Horizontal	
<u>Item</u>	Weight	Arm	Moment
Empty Weight as Equipped (see Page 1)	6011	+20.10	+120821
Oil (15 Gals.)	113	÷ 8	+ 904
Fuel (67 Gals.)	402	+ 30	+12060
Pilot	170	- 5	- 850
Co-Pilot	170	- 5	- 850
Most Forward C.G.	6866	19.24	132085
Minimum Ballast in Rear Compartment	59	+169	9971
	6925	20.51	142056

Most Rearward C.G.

Empty Weight as Equipped (see Page 1)	6011	+20.10	+ 120821
011 (15 Gals.)	113	+ 8	+ 904
Fuel (67 Gals.)	402	+ 30	+12060
Pilot	170	5	- 850
2 Passengers (Front)	340	+ 62	+21080
2 Passengers (Rear)	340	+102	+34680
RansnagorziaxZnikokzConzazkomzk	7376	±02042× 25.58	188695
Baggage in Rear Compartment (Maximum with none in front)	<u>374</u> 7750	<u>+169</u> 32.5	63206 251901

REPORT NO. W21-152

A 1

BAGGAGE DISTRIBUTION CHART CHECK

Nose Heavy

Minimum ballast 59 lbs. (page 3).

Ratio Front baggage = 276 378-59 - .865 , which is less than 1.735 (see Report #1276A, page 6), therefore OK for the maximum allowable total baggage of 654 lbs. As total baggage is reduced, this ratio diminishes to 0 so that chart is OK for all baggage loads in nose heavy condition.

Tail Heavy

Maximum rear baggage with none in front = 374 lbs.

Ratio Front baggage 276 378-374 - 69, which is Added rear baggage 276 378-374 - 69, which is greater than 1.39 (see Report #1276A, page 6), therefore OK for maximum allowable total baggage of 654 lbs. As total baggage is reduced this ratio increases, therefore chart is OK for all baggage loads in tail heavy condition.

NOTE:

Maximum front baggage = 300 lbs. - 24# - 276#

Maximum rear baggage = 400 lbs.- 22# = 378#

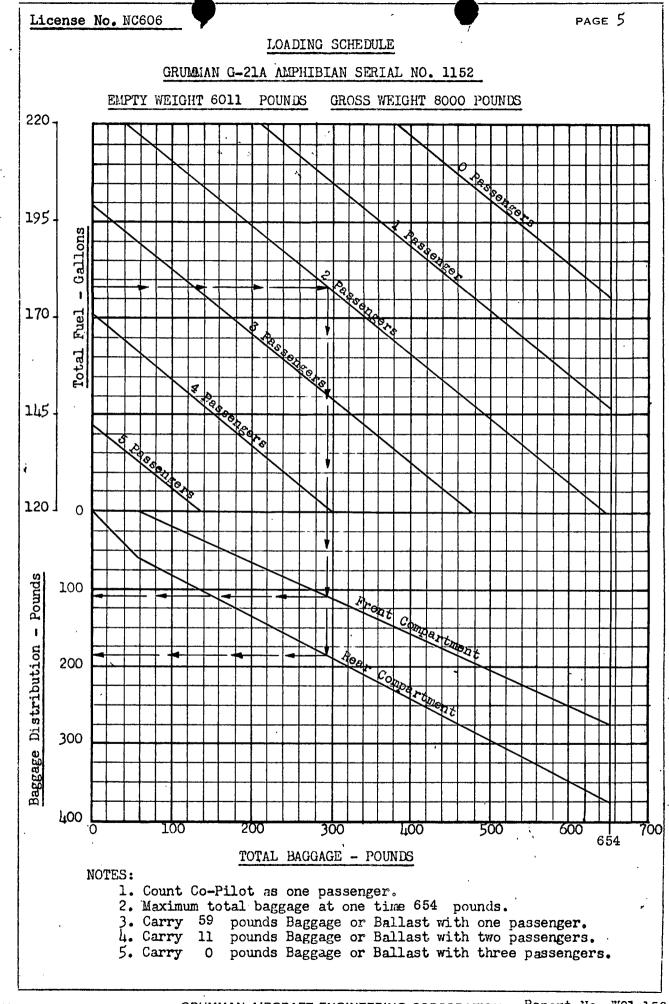
Fwd. Compt.

Anchor & Line 19

Boat Hook 5

Pire Extinguisher 13

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