FEDERAL AVIATION AGENCY

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

	MAKE				 -	 _	, .		
1. AIRCRAFT	Piper	•		PA-17		SERIAL NO.		UND REGISTRATION MARI	
	HAHE (First, m			LE-I/		17-114	N481	6H	
2. OWNER	_	E Lebo			610	Street and number cur, in Center St Lersburg, Pa	-		
	ONLY FO	R UNIT REPAIRE	ED AND/OI S MANUAI	R ALTERED. DE	SCRIBE	WORK ACCOMPL	ISHED ON R	EVERSE IN AC-	
UNIT		MAKE		MODEL		557111 70	HATURE C	DF WORR (Check)	
្រា				H-0557		SERIAL NO	MAJOR REMAIR	MAJOR ALTERATION	
. AIRFRAME	••••	*************	A (As describ	ed in item I above) é	· ********			I	
5. POWERPLANT		•	· · · · .		IJΑ	. APP cable alrwork	Elliggs consuma	. .	
c. PROPELLER			ke	HESPECTOR -	<u> ५६६४वे रा</u> पस्				
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	TYPE A	ND MANUFACTURER	ng itaaqanı	Appears in a part	ക വിവസ		THE STATE OAR	12(11(3),	
& APPLIANCE		•	bns stnem	Aage ខេត្ត ប្រារ្ត (ព្រះ្ធា ខ្ល ១៩០៦៦ ខេត្តបញ្ជូន ខេត្តប្រារ ១១ ១ ១៤៧ ក្រុង ខេត្តប្រ	- जास ् तीवृत् (क्षेत्रविधः (PAT 7-11-6		-	
		ND BALANCE DA	TA This	item must be cor	noleted l	ov repair or alterati	On agency	However, in the	
AFTEI eb	R Min repairs i stribed below	undlor siterations voere made:	case () a spare compon	ent it u	ill not be complete ime, it will be comp	d Daril such	omponent is in	
CATEGORY		EMPTY WEIGHT (Pou	nde)*	EMPTY CE	ITER OF GR	AVITY (Inches from datum))- USE	FUL LOAD (Pounds)*	
		F I	,	7					
Nor	177	738.5		12.8*	12.8" aft Wing IE		411.5		
5. CONFORM	ITY STATE	MENT (Complete and	(AcCE)				·	· · · · · · · · · · · · · · · · · · ·	
- AGENCY S NAME	AND ADDRESS			b. KUND OF AGE	(CY		e. CERTIFICA	ITE NO.	
Box 1	Conite 1704 Verberia	<u>-</u> .		G.Certifica	Certifica sted Rep cturer. (Check i	air Station I repair or atteration under delegation o	- A&P 42	2947	
the informa	tion (urnis)	air and/or alteration ve been made in ac ned herein is true as				er item 3 above and it 18 of the U.S.	d described of	the reverse or ations and that	
26 Apr	63]	Her C	Coulter. Jr.	A&P /229	17	
(Data repai	r mad/or siters	tion complete()				(Signature of authorized i		4/	
Pursuant to	the author	The state of the s	the unit id is	lentified in item 3	∵wwa•ina	pected in the mann			
<u> </u>	ECTED P	Y ☐ FAA Design ☐ FAA Flight Standards Inspector	_	anufacturer [epair Station]		ian Department of T (Specify) Auth I		ector of Aircraft	
26 Ap	er 63			Ner C Ce	ulter	JI. ARP	122917	-	
(Date of	approval or re	(lection)				thorited individual; title	or identification o	um per}	
7. TO BE CON	MPLETED (DNLY BY FAA PER	SONNEL	·			<u> </u>	· · · · · ·	
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(FA	A designation	number)				Signature Flight Standard	is Inspector)		

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.

- 1. Remove Nova-Tech radio.
- 2. Install Narco VHI-3 radio. Radio box mounted under left side of Instrument Panel to fuselage cross tubes as shown in the attached drawing. Antenna and leads, speaker and fuseing system of origional installation retained for this radio.
- 3. Structural support check meets requirements of CAMB. Material and work are in accordance with Cam 18.
- 3. Circut fused as shown on attached drawing.

5. Max running load of 7.2 amps does not exceed 80% of 10 generator capacity,

6. Install 9 gal wing tank in right wing in accordance with instructions provided by the kit manufacturer. (Stoddard Aero Co. 2550 E Fifth Ave. Anchorage, Alaska) This Installation was accomplished identical to like installation on Piper Pa-17 Ser No 17-7, N4582H. Copy of that 337 is attached. Also attached are installation instructions.

7. Placcard on Panal:

Pilot only - No baggage when all tanks are full Pilot and Pass - No baggage and no fuel in wing tanks

8. Weight and balance:

Vht-3 Narco 7.	3 49.0		
Wing tank 8.	0 76.00		357•7 5 60• 0
Nova-tech radio (Rem.) - 4.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 234.0 46516.3

EWCG limits are 12.5 to 17.5" aft wing IE

12.8" aft Wing IE New EWCG

New Empty wt 738.5 Lbs New Useful load 411.5 Lbs

[&]quot;If additional space is needed attach additional sacets bearing aircraft nationality and registration mark and data work complished.

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INSTRUCTIONS FOR INSTALLING WING TANK IN PIPER VAGABOND (PA-15 & 17)

- 1. Remove fairing strips from root of wing (both top and bottom strips).
- 2. Cut away area from top of wing where tank will be located (between first and second ribs of right wing). Use care to avoid cutting any of the rib stitching of the second rib. Area removed should be the entire width—between the ribs—and extending in length from about two inches ahead of the front spar to about two inches aft of the rear spar.
- 3. Remove and discard all channel braces within the tank area Disconnect the drag wires crossing the tank area and withdraw them through the inspection holes only far enough to permit the tank to lower into place. (It may be necessary to apply inspection rings at the outer ends of the drag wires in order to provide an opening through which to work and a place through which to withdraw the wires.) Tie lengths of safety wire to each of the drag wires to use as pull-wires to draw them back through the tank. Lay the wires back over the second rib. Cut web across braces and tie to second rib instead of first.
- 4. Locate point of lower wing fabric directly below tank clamp locations and apply two inspection rings, cut away fabric from center of ring. Wrap the spars with two or three layers of friction tape at the places where the tank brackets will be located. Apply two inspection rings near the root of wing at the drag-wire connections through which to reconnect them. (Applied to lower wing fabric.) Locate position of tank outlet and clip or remove any interfering web from rib member (first rib) (a rotary file is ideal for this). Cut away a small area of the aluminum leading edge material both at the top and bottom of the spar where the front tank bracket locates. This will have to be done even before the spar can be wrapped with friction tape. Provide only enough room to install and tighten the bracket through-bolt.
- 5. Place tank on wing in place to be entered, insert safety wires through their respective holes and lower into place. Bend lower end of clamp up under spars and install 3/16 through-bolts. Re-install drag wires and adjust. Locate spot on lower wing fabric and cut small hole for tank drain. Apply small grommet features.
- 6. Cut a 30-inch length of copper tube and connect to the tank outlet using the STRAIGHT connector. Form a gradual bend and bring through the fabric to the inside of the cabin through an appropriate hole cut for it. Attach cut-off valve at this position. Bring additional tubing forward and down right side of through space just ahead of instrument panel (if space is inadequate, enlarge with punch). Avoid any sharp bends in line and slope gently downward from point where line enters cabin.
- 7. Insert "T" in regular fuel line between regular shut-off valve and strainer. Connect auxiliary fuel line to this "T".
- 8. Cut piece of fabric at least four inches wider and longer than opening in wing cut for tank. Avoid doping within an inch of tank to permit wrinkles to be pulled from top of wing. Dope cloth to this area and allow to dry. When dry apply dope to top of tank, stretch fabric toward fuselage to remove slack between second and third ribs. Cut out a finishing cloth grommet to apply around filler neck. Refinish top patch and re-inetall fairing strips.

Placard to be placed near filler cap:

"FUEL 9 GALLONS"
"FACE VENT FORWARD"

Placard to be placed near tank shut-off valve:

AUXILIARY FUEL—9 GALLONS TURN VALVE ON WHEN MAIN TANK GETS BELOW 1/4 FULL. TURN VALVE OFF BEFORE REFILLING TANK. TRANSFER FUEL IN LEVEL FLIGHT ONLY.