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DATE		February	14, 1904			

PREPARED	PIPER AIRCRAFT CORP.	Airplane Flight Manual
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Log of Revisions

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REVISION NO.	PAGE	DESCRIPTION	O - O	DATE
		Theer is first Trim	D. O. Kaga	11.
1	1 ·	Deleted Propeller And Static RPM	H.E. Waterhan Supervisor	1
		Information	SO-EMDO-42	3/24/64
			0 0 .	
2	1	Added Static	O J. a. Kagar	. سر
		R.P.M. Information	Supervison	5/05/01
		And Retails	SO-EMDO-MEN	5/25/64
. 3.	. 3	Placards Section:	H. E. Waterman	
		Added Placard No. 4	Supervisor SO-FMO-42	7/8/64
			Itditalo.	
4	2	Maneuvers Section: Deleted Stalls in Utility	Supervisor	8/31./64
	3	Category	SO-HMDO-43	
5c	2,3	Increased Gross Weight	Who Hallier	5/21/65
50	2,0	to 2150 and Baggage Capacity	Supervisor	3/21/03
12	2 /	to 200 Lbs.	SO-EMDO-43	11.
		Limitations Section:	Kilo Bit	Luss
. 6	. 1	Revised Oil Temperature	H. C. Faller	6/23/65
		and Fuel Pressure Range	Supervisor, SO-EMDO-43	
			Pluster	1.
. 7	1100	Static RPM Corrected	In Il. C. Faller	8/12/65
		No., Serial and Fundame	Supervisor SO-EMDO-43	in the same
		mirplane such alexane	fril. C. Faller	
8	1	Revised Static RPM, Oil Temperature and Fuel	Supervisor	12/13/65
	. 1	Pressure Limitations	SO-EMDO-43	
	•	Add Note to Marine Maint	. 1.4777	1/54/61
	2.	Added Note to Maximum Weight Callout		
	3	Revised Placard No. 4	Δ.	
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	DEVELOPMENT CENTER, VERO GEACH,	
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	Log of Revisions	
REVISION PAGE NO.	DESCRIPTION	APPROVED DATE
9 3	Procedure Section. Added Item No. 4 "Electric Pitch Trim Procedures"	TAA DOA SULT
Tribe 4 Alline	Added Page 4	Supervisor So-EMDO-43
10 4	Add Procedures Section And Item 5	1/:///
3	Added Placard No. 5	H./C. Faller 5/20/66 Supervisor SO-EMDO-43
11 3	Added Placard No. 6	H.C. Fallin 12/6/66
Page 1 2 Maxi	The bindus.	//Supervisor SO-EMDO-43
12 2	Revised C. G. Range	11 141
	erion adapti in trevientos.	Supervisor SO-EMDO-43
Title Page	Added FAA Identification No., Serial No. and this document must be kept it airplane at all times.	(現.6: 予報信し 11/27/67
14 1	Added Propeller Designation	1104.66
2,3	Revised Placard Nos. 1 and 6 to read: "In full view of the Pilot".	Supervisor SO-EMDO-43

FAA APPROVED 2/14/64

PRIPARED		PIPER AIRCRAFT COR	Model DA 20 140		
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REVISON NO.	PAGE	• DESCRIPTION	APPI	ROVED	DATE
15	2	Revised Baggage Capacity Limita-	Ilm H. M.	Toomey 1	0/29/60
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16	Title	Allocated Piper Report No. VB-160 to this Manual.	. n н. м.	1.100mey	11/7/6
		Liverence & Salar	FAA D	OOA SO-1	,
17	4	Procedures Section: Revised Item 4 and Added Item 6. H. M. Toom		Toomey of	5/5/60
	5	Added Page 5.	OA SO-1		
18 .	. 3	Placards Section: Added Placard No. 7.	TA.M.	Toomey 100 SO-1	Tinke
		the state of the s	PAA D	OA SU-1	11114
19	1	Limitations Section: Rephrased Propeller Limits.			
	2	Maximum Weight: Added information.			
			71: -		
	2 thru 5	Pages re-arrranged to provide space for added information.	Herbert FAA l	M. Toomes	16/10
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PRIPARED	PIPER AIRCRAFT CORP.	Airplane Flight Manual Model PA-28-140			
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APPROVED	REPORT VB-160	PAGE 1 of 5			
1 1 10 25 1 1 1 1 1 1 1		Model PA-28-140			
		and Utility Categories			
FAA Identification No	N5840U	Constant and sections			
Serial No. 2	8-26671	AND REAL DISTRICTS IN THE			
	AIRPLANE FLIGHT MANUAL				
1. <u>Limitations Section</u>	The following limitations must be observed this airplane:	ed in the operation on			
Engine	Lycoming 0-320-E2A	At on of our for The Soil			
Engine Limits	For all operations 2700 rpm, 150 hp	JOHN to hear the			
Fuel	80/87 Octane Aviation Fuel	Avenue at the property			
Propeller	Sensenich M74DM or 74DM6, Maximum diameter 74 inches. Minimum diameter 72-1/2 inches. Static RPM at maximum				
	 permissible throttle setting: Not under 2150, not over 2425 for max. al Not under 2275, not over 2425 for max. al 				
Power Instruments	No additional tolerance permitted. Oil temperature: GREEN arc (normal of to 245° F; YELLOW arc (caution range) line (maximum) 245° F (S/N 20,000 to 26)	60° F to 120° F; RED			
	Oil temperature: GREEN arc (normal o 245° F; RED line (maximum) 245° F (S/N	pperating range) 75° F to 120,551 and up)			
	Oil pressure: GREEN arc (normal operators) 75 psi; YELLOW arc (caution range) 25 (minimum) 60 psi; RED line (maximum)	psi to 60 psi; RED line			
	Fuel Pressure: GREEN arc (normal ope 5 psi; RED line (minimum).5 psi; RED (S/N 20,000 to 20,550).	rating range).5 psi to line (maximum) 5 psi			
	Fuel Pressure: GREEN arc (normal ope 8 psi; RED line (minimum).5 psi; RED (S/N 20,551 and up).				
	Tachometer: GREEN arc (normal operarpm; RED line (maximum continuous por	nting range) 500 to 2700 wer) 2700 rpm.			
Airspeed Limits (Calibrated Airspeed) (Miles per Hour	Never exceed	 140 129 115 3.8 Normal Category 4.4 Utility Category 			

1/6/70

Rev. No. 19

REVISED

PREPARED PIPER AIRCRAFT CORP. Airplane Flight Manual DEVELOPMENT CENTER, VERO BEACH, FLA. Model PA-28-140 CHECKED APPROVED 2 of 5 REPORT VB-160 PAGE Utility Category - S/N 28-20001 and up Maximum Weight 1950 lbs. Normal Category - S/N 28-20001 through 28-20939 (Normal category maximum weight for aircraft with S/N 28-20001 through 28-20939 may be increased to 2150 lbs. by the installation of Piper Kit 756 962 and Sensenich propeller M74DM58) Normal Category Only (S/N 28-20940 and up) 2150 lbs. 100 lbs. S/N 28-20001 through 28-20939 (Maximum baggage may be Baggage Capacity increased to 200 lbs. by the installation of Piper Kit 756 962 (+117)and Sensenich propeller M74DM58 or 74DM6-0-58. Maximum baggage may be increased to 300 lbs. by the installation of Piper Kit 756 962, Sensenich propeller M74DM58 or 74DM6-0-58 and when modified in accordance with Piper drawing 66671. See Page 2A of the weight and balance section for proper loading of baggage). S/N 28-20940 and up. (See Page 2A of the weight and balance 200 lbs. section for proper loading of baggage). (+117)S/N 28-20940 and up. (Aircraft are eligible for 300-1b maxi-300 lbs. mum baggage when modified in accordance with Piper draw-(+117)ing 66671. See Page 2A of the weight and balance section (&) for proper loading of baggage). (+133)The datum used is 78.4 inches ahead of the wing leading edge at the C.G. Range section of the straight and tapered section. Normal Category 1. Rearward Limit Forward Limit . Weight (In. Alt of Datum) (In. Aft of Datum) (Pounds) 95.9 88.4 2150 95.9 1975 85.9 95.9 84.0 1650 Utility Category 2.

Weight	Forward Limit	Rearward Limit
(Pounds)	(In. Aft of Datum)	(In. Aft of Datum)
1950	85.8	86.5
1650	84.0	86.5

Straight line variation between given points.

NOTE: It is the responsibility of the airplane owner and/or the pilot to insure that the airplane is properly loaded. See weight and balance section for loading information.

FAA APPROVED 2/14/64
REVISED 1/6/70 Rev. No. 19

PREPARED .	PIPER AIRGRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	Airplane Flight Manual Model PA-28-140
APPROVED	REPORT VE-160	PAGE 3 of 5
Maneuvers 1.	Normal Category - All acrobatic maneuvers in Utility Category - Approved maneuvers for Utility - Approved	

Spins (Flaps Up) Stall
Steep Turns 129 mph

Placards

1. In full view of the pilot:

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS.

ALL MARKINGS AND PLACARDS ON THIS AIRPLANE APPLY TO ITS OPERATION AS A UTILITY CATEGORY AIRPLANE. FOR NORMAL AND UTILITY CATEGORY OPERATIONS, REFER TO THE AIRPLANE FLIGHT MANUAL.

FOR SPIN RECOVERY, USE FULL RUDDER AGAINST SPIN, FOLLOWED IMMEDIATELY BY FORWARD WHEEL.

NO ACROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED FOR NORMAL CATEGORY OPERATIONS."

- Adjacent to upper door latch: "ENGAGE LATCH BEFORE FLIGHT."
- 3. On aft side of baggage compartment: "UTILITY CATEGORY OPERATION NO BAGGAGE OR AFT PASSENGERS ALLOWED. NORMAL CATEGORY OPERATION SEE AIRPLANE FLIGHT MANUAL WEIGHT BALANCE SECTION FOR BAGGAGE AND AFT PASSENGER LIMITATIONS."
- 4. On the instrument panel in full view of the pilot when the oil cooler winterization kit is installed: "OIL COOLER WINTERIZATION PLATE TO BE REMOVED WHEN AMBIENT TEMPERATURE EXCEEDS 50°F."
- 5. On the instrument panel in full view of the pilot when the autoflite is installed: "FOR HEADING CHANGES: PRESS DISENGAGE SWITCH ON CONTROL WHEEL. CHANGE HEADING. RELEASE DISENGAGE SWITCH."

FAA APPROVED 2/14/64

REVISED 1/6/70 Rev. No. 19

PRIPARID	PIPER AIRCRAFT CORP.	Airplane Flight Manua		
CHECKED	DEVELOPMENT CENTER, VERO BEACH, FLA.	Model PA-28-140		
APPROVID	REPORT VB-160	PAGE4 of 5		
Placards (Cont'd)	6. In full view of the pilot: Utility Category Only			
(Cont dy	Acrobatic maneuvers are limited to the f	ollowing:		
		Entry Speed		
	Spins (Flaps Up) Steep Turns Lazy Eights Chandelles	Stall 129 mph 129 129		
	7. In full view of the pilot: "ROUGH AIR OR MA 129 MPH."	NEUVERING SPEED -		
Airspeed	RED radial line Never Exceed	171 mph (148 knots)		
Instrument Markings	YELLOW arc Caution Range (Smooth Air Only)	140 to 171 mph . (121 to 148 knots)		
	GREEN arc Normal Operating Range			
	WHITE arc Flaps Down Range			
2. Procedures	1. The stall warning system is inoperative with	the master switch off.		
Section	2. The electric fuel pump must be on for both ta	keoff and landing.		
	 Except as noted above, all operating procedure are normal. 	res for this airplane		
A Feliment	4. (Electric Pitch Trim Installation Without Pitch Trim Switch)			
Section's	The following emergency information applies in case of electric pitch trim malfunction:			
	a. In case of malfunction, disengage electring ing out circuit breaker on instrument par			
	b. In emergency, electric pitch trim may be manual pitch trim.	91		
	c. In cruise configuration, malfunction resu and 30 ft. altitude variation.	ilts in 10° pitch change		

FAA APPROVED 2/14/64

REVISED 1/6/70 Rev. No. 19

PRIPARID	PIPER AIRGRAFT CORP.	Airplane Flight Manual
CHICKED	DEVELOPMENT CENTER, VERO BEACH, FLA.	Model PA-28-140
APPROVED	REPORT VB-160	PAGE 5 of 5

2. Procedures
Section
(Cont'd)

5. (AutoFlite Installation Only)

The following emergency information applies in case of autoflite malfunction:

- a. In case of malfunction PRESS disconnect switch on pilot's control wheel.
- b. Rocker switch on instrument panel OFF.
- c. Unit may be overpowered manually.
- d. In cruise configuration malfunction, 3 seconds delay results in 60° bank, and 100' altitude loss.
- e. In approach configuration malfunction, 1 second delay results in 10° bank and 0' altitude loss.
- 6. (Electric Pitch Trim Installation With Pitch Trim Switch)

The following emergency information applies in case of electric pitch trim malfunction:

- a. In case of malfunction, disengage electric pitch trim by pushing pitch trim switch on instrument panel to OFF position.
- b. In an emergency, electric pitch trim may be overpowered using manual pitch trim.
- c. In cruise configuration, malfunction results in 10° pitch change and 30' altitude variation.

3. Performance
Section

All performance is given for a weight of 2150 pounds.

Loss of altitude during stalls can be as great as 200 feet, depending on configuration and power.

Stalling speeds, in MPH, power off, versus angle of bank (Calibrated Airspeed):

Angle of Bank	0	20	40	50	60
Flaps Up	64	66	73	08	91
Flaps Down	55				

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REVISED 1/6/70 Rev. No. 19

PREPARED	PIPE	R AIRCRAFT	CORP.	Weight and Balance Data
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APPROVED		F 58 HO 19-15		PAGETitle

REPORT VB-162

EQUIPMENT LIST

MODEL PA-28-140

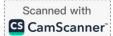
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APPROVED	REPORT VB-162	PAGEii

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4 PM		Log of Revisions	Mrs () Care	į.·
REVISION NO.	PAGE	DESCRIPTION	APPROVED *	DATE
1	12	-Added: R. C. Allen Turn Coordinator #80-9	9. mc Cumor	1-26-69
2	14	Changed Narco Mark 12 to read: Narco Mark 12A or Narco Mark 12B	9.mc Ceans	1-31-69
	713031 0	Added: Narco Mark VIII Narco VOA-50M Omni Convertor Narco VOA-40 Omni Convertor (2)	Si Arm	Normen.
3	13	Added: Narco Mark 16 Installations	g.mc Ceson	7-16-69
	. 17	Added: Adjustable Front Seat Instal- lations and Overhead Vent System	100 000	257 AV
. 4	10	Added: Strobe Light, Whelen Engineering Company	, me Cano	10-3-69
5	. 16	Removed Piper Drawing 65766 from Inertia Safety Belt (Set of 2)	me leavor	11-5-69
6 :	17	Under Exterior Finish Changed 2ndTrim Color to Trim Color and 1st Trim Color to Accent Color). n. c Creamen	12-4-69
7	9	Altimeter - Piper Drawing 67467 9.7 changed to 99009-2 or -3	Mc Como	1-15-70

Aircraft Weight and Balance Revision

Tail Number: N	Tail Number: N5840U		Date: 9/15/16	Date: 9/15/16			
CALIFORN	IIA MD 20619	o and	ar our	Work Order No			
BASED ON	LAST W&B			Data No:			
Aircraft Make: PIPER	Model: PA28-140		Serial No: 28-26671		Time:		
Registered Owner: AMIS WILLIAM A			Address: 4023 GRANT WASHINGTO 20019		<u> 24</u>	A CONTRACTOR	
Maximum Weight 21	50	CG Ra	nge FWD 8	8.4 A	FT 95.9		
	revious Weight and Balance:	Us	eful Load: 859.9	EW: 1290.1	EWCG: 85.2	Moment: 109895.3	
Notes:	1		1.3	Day	-	-14	
The second				Weight	Arm	Moment	
ELT WITH BATTERY, EL	T TRAY AND STRAPS	Elva v		1.8	156	280.80	
PREVIOUSLY INSTALLE	D SKYTEC 149NL STARTER	1	47	9.4	19.5	183.30	
REMOVED ORIG START	TER)	/	1. 1. 1. 1.	-17.	19.5	-331.50	
5)			10	0.00	0.00	0.00	
	Q			0.00	0.00	0.00	
				0.00	0.00	0.00	
		6		0.00	0.00	0.00	
	1		9	000	0.00	0.00	
		1	P	0.00	0.00	0.00	
		\rightarrow		0.00	0.00	0.00	
X As Calculated	Moment 1100	027.90	New Emp	ty Weight CG	Wew	Useful Load	
As Weighed		284.30	8	5.67		865.70	
			Signature	1000	2		
			Repair Ag		21		



AEROTRONIC SERVICES

MONTGOMERY COUNTY AIRPARK GAITHERSBURG, MD. 20760

F.A.A. CRS 1047

For: Piper PA-28-140 "C"
Ser# 28-26671
N5840U

Aug. 27, 1970

<u>ITEM</u>	WEIGHT	ARM	MOMENT
Aircraft empty taken from original wt. & bal. data dtd. 2/25/70	1284.8	85.3	109572.0
Added: Genave Alpha-200	5.3 1290.1	61.0 85.2	323.3 109895.3

New Empty Weight New E. W. C. G. New Useful Load (N) 1290.1 Lbs. 85.2 Ins. 859.9 Lbs.

Charles W. Chandler A&P 1536671

PREPARED	PIPER	AIRCR	AFT	COR	Ρ.	Weight and Balance Data
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APPROVED		REPORT	VB-162			PAGE 1 Section 1

WEIGHT AND BALANCE DATA

MODEL PA-28-140 CHEROKEE

Airplane Serial Number 28 - 26671

Registration Number N5840U

Date FEB 2 5 1970

AIRPLANE EMPTY WEIGHT

It e m	Weight (lbs)	C.G. Arm X (Inches Aft of Datum)	Moment (In-1bs)
Standard Empty Weight * Comput		84.5	103771
Optional Equipment	54.6	102.1	5574
Unusable Fuel (3 Pints)	2.2	103.0	227
Licensed Empty Weight = Total of Above Items	284.8	recided 8	1095770

* Standard Empty Weight includes paint, hydraulic fluid and undrainable engine oil.

AIRPLANE USEFUL LOAD

(Gross Weight) - (Licensed Empty Weight) = Useful Load

Normal Category:

(2150 lbs)

(1284.8 lbs

65 2 1hs

Utility Category:

(1950 lbs)

(128 4/35) Centre = 605.2

THIS LICENSED EMPTY WEIGHT, C.G. AND USEFUL LOAD ARE FOR THE AIRPLANE AS DELIVERED FROM THE FACTORY. REFER TO FORM FAA-337 WHEN ALTERATIONS HAVE BEEN MADE.

Inspection Representative

PREPARED

PIPER AIRCRAFT CORP. Weight and Balance Data
DEVELOPMENT CENTER, VERO BEACH, FLA. Model PA-28-140

REPORT VB-162

PAGE 2 Section 1

C.G. RANGE AND WEIGHT INSTRUCTIONS

- 1. Add the weight of all tems to be loaded to the licensed empty weight.
- 2. Use the loading graph to determine the moment of all items to be carried in the airplane.
- 3. Add the moment of all items to be loaded to the licensed empty weight moment.
- 4. Divide the total moment by the total weight to determine the C.G. location.
- 5. By using the figures of Item 1 and Item 4, locate a point on the C.G. range and weight graph. If the point falls within the C.G. envelope, the loading meets the weight and balance requirements.

NOTE: With optional jump seats installed, aft passenger weight is restricted only by airplane weight and balance limitations (See Page 4 of this section). For baggage allowance, see Page 2A of this section.

SAMPLE LOADING PROBLEM (Normal Category)

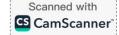
E Share Second and all	Weight (lbs)	Arm Aft Datum · (Inches)	Moment (In - Jbs)
Licensed Empty Weight	Si284.82c	Lol 85.3 8-27-76	109572
Oil (8 quarts)	15	32.5	488
Pilot and Front Passenger	340	85.5	29070
Passengers, Aft *	340	117.0	39780
28. 4 gallons Fuel (50 Gal. Maximum)	170.2	95.0	16169
Baggage * Area (1)	Andrin Landing	117.0	drawing
Baggage * Area (2)		133.3	
Total Loaded Airplane	2150	90.7	195079

The center of gravity (C.G.) of this sample loading problem is at 90.7 inches aft of the datum line. Locate this point (90.7) on the C.G. range and weight graph. Since this point falls within the weight - C.G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

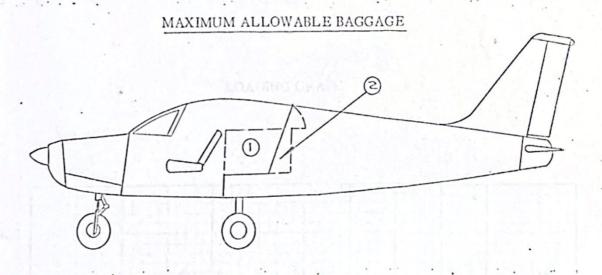
* Utility Category Operation - No baggage or aft passengers allowed.
 Normal Category Operation - See Page 2A of this section.

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PRIPARED
PIPER AIRCRAFT CORP. Weight and Balance Data
DEVELOPMENT CENTER, VERO BEACH, FLA. Model PA-28-140

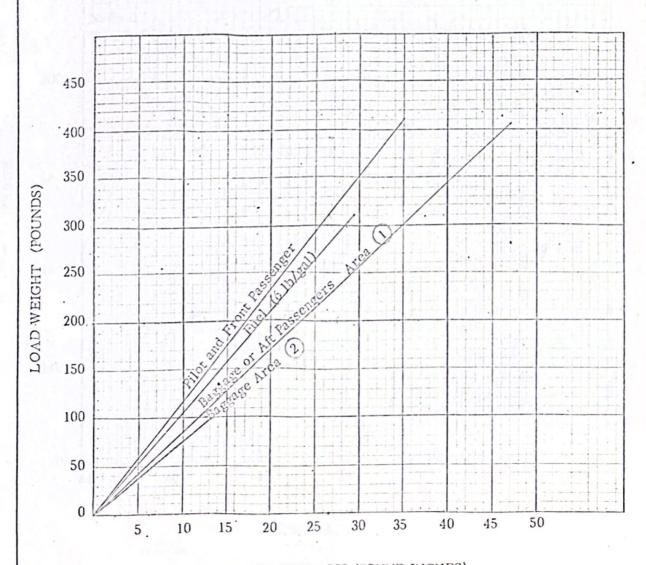
APPROVED
REPORT VB-162
PAGE 2A Section 1



- A. Maximum Allowable Baggage Capacity Area (1) = 200 lbs.
 - S/N 28-20940 and up.
 - 2. S/N 28-20001 through 28-20939 (maximum baggage may be increased to 200 lbs by the installation of Piper Kit 756 962 and Sensenich propeller M74DM58 or 74DM6-0-58).
- B. Maximum Allowable Baggage Capacity Area (2)= 100 lbs.
 - 1. S/N 28-20940 and up. (Aircraft are eligible for 100-1b maximum baggage in this area when modified in accordance with Piper drawing 66671).
 - 2. S/N 28-20001 through 28-20939. (Aircraft are eligible for 100-lb. maximum baggage in this area by the installation of Piper Kit 755 962, Sensenich propeller M74DM58 or 74DM6-0-58 and when modified in accordance with Piper drawing 66671).

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APPROVED		REPORT VB-162		PAGE 3 Section 1

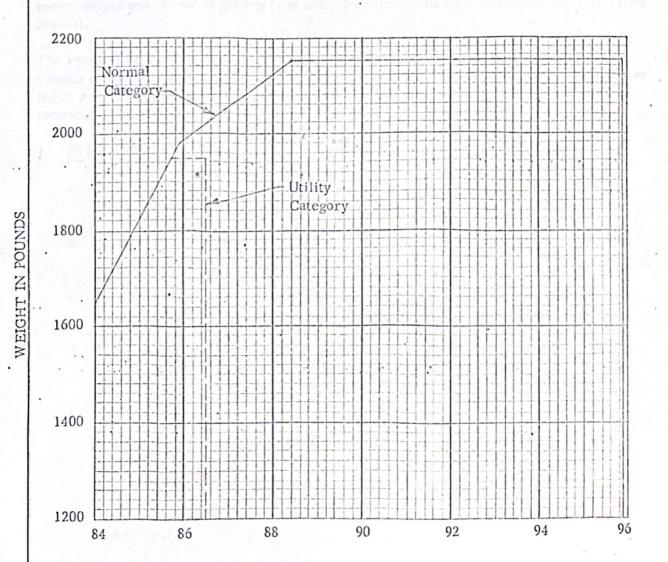
LOADING GRAPH



MOMENT/1000 (POUND INCHES)

0

C.G. RANGE AND WEIGHTS



INCHES AFT DATUM

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PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.

Weight and Balance Data Model PA-28-140

APPROVED

REPORT VB-162

PAGE 5 Section 1

WEIGHT AND BALANCE DATA

WEIGHING PROCEDURE

At the time of delivery, Piper Aircraft Corporation provides each airplane with the licensed empty weight and center of gravity location. This data is on Page 1, Section 1 of this Flight Manual.

The removal or addition of an excessive amount of equipment or excessive airplane modifications can affect the licensed empty weight and empty weight center of gravity. The following is a weighing procedure to determine this licensed empty weight and center of gravity location:

PREPARATION

- a. Be certain that all items checked in the airplane equipment list are installed in the proper location in the airplane.
- b. Remove excessive dirt, grease, moisture, foreign items such as rags and tools from the airplane before weighing.
- c. Defuel airplane. Then open all fuel drains until all remaining fuel is drained. Operate engine on each tank until all undrainable fuel is used and engine stops.
- d. Drain all oil from the engine, by means of the oil drain, with the airplane in ground attitude. This will leave the undrainable oil still in the system. Engine oil temperature should be in the normal operating range before draining.
- e. Place pilot and co-pilot seats in fourth (4th) notch, aft of forward position. Put flaps in the fully retracted position and all control surfaces in the neutral position. Tow bar should be in the proper location and all entrance and baggage doors closed.
- f. Weigh the airplane inside a closed building to prevent errors in scale readings due to wind.

2. LEVELING

- a. With airplane on scales, block main gear oleo pistons in the fully extended position.
- b. Level airplane (see diagram) by deflating nose wheel tire, to center bubble on level.

CHECKED, S. Degra

APPROVED

PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.

Weight and Balance Data Model PA-28-140

REPORT VB-162

PAGE 6 Section 1

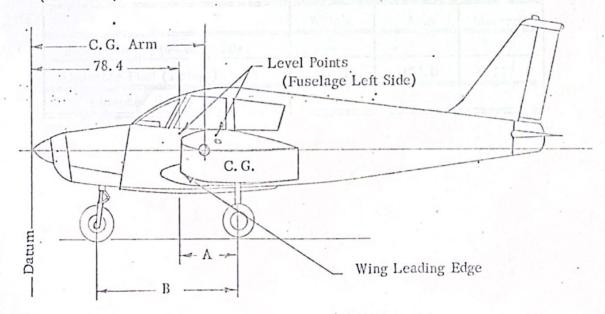
3. WEIGHING - AIRPLANE EMFTY WEIGHT

2. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.

Scale Position a	nd Symbol	Scale Reading	Tare	Net Weight
Nose Wheel	(N)	e letter lak formi		
Right Main Wheel	(R)			7 A
Left Main Wheel	(L)	T		

4. EMPTY WEIGHT CENTER OF GRAVITY

a. The following geometry applies to the PA-28-140 B airplane when airplane is level (See Item 2):



A -

B =

The datum is 78.4 inches ahead of the wing leading edge at the intersection of the straight and tapered section.

CHICKED & Memor

PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.

Weight and Balance Data Model PA-28-140

APPROVED

REPORT VB-162

PAGE 7 Section 1

- b. Obtain measurement "A" by measuring from a plumb bob dropped from the wing leading edge, at the intersection of the straight and tapered section, horizontally and parallel to the airplane centerline, to the main wheel centerline.
- c. Obtain measurement "B" by measuring the distance from the main wheel centerline, horizontally and parallel to the airplane centerline, to each side of the nose wheel axle. Then average the measurements.
- d. The empty weight center of gravity (as weighed including optional equipment and undrainable oil) can be determined by the following formula:

C. G. Arm =
$$78.4 + A - B(N) \over T$$

5. LICENSED EMPTY WEIGHT AND EMPTY WEIGHT CENTER OF GRAVITY

Affair, 1-3, to Arap, Curyries t	Weight	Arm	Moment
Empty Weight (as weighed)			
Unusable Fuel (3 pints)	+ 2.2	103.0	+ 227
Licensed Empty Weight		-1 0-1	1

PRIPARED		GORP. EACH, FLA.	Weight and Model PA-	
APPROVED	REPORT VB-162 STANDARD EQUIPMENT		PAGE 8 Section 1	
	WEIGHT AND BALANC STANDARD EQUIPMENT MODEL PA-28-140	LIŞT	ARM AFT	MOMENT
leaning.	ARRELIA OF ITEM	WEIGHT (LBS)	(INCHES)	(POUND INCHES
Check if Installed	Engine Accessories .		60, 7	18
x	Engine - Lycoming Model 0-320-E2A	261.4	26. 1	6822
<u> </u>	Fuel Pump, Electric Auxiliary, Bendix Model 478360	1.8	41.8	75
X	Fuel Pump, Engine Driven, Lycoming Dwg. No. 73297, 74082, 75148 or 75246	1.6	41.3	66
х	Oil Cooler, Piper Dwg., Harrison C-8526250	2.6	18.1	47
<u>x</u> .	Filter, Fram Model CA-161PL or AC No. A48C or Purolator AFP-2	. 9	. 20.1	18
Х	Starter-Lycoming #76210 (Prestolite MZ 420)	4) 17.0 *	. 19.5	332
X	Alternator, 60 Amp, Chrysler No. 2642997	12.5	19.0	238
	Propeller and Propeller Accessor	ies		
X	Propeller, Sensenich M74DM58 or 74DM6-0-58	30.0	10. 1	303
Х	Spinner and Attachment Plates	2.0	8.0	16
	Landing Gear and Brakes			
<u>X</u> .	Two Main Wheel Assemblies 6.00-6 (a) Cleveland Aircraft Products (2) Wheel Assembly No. 40-86	32.0	109.6	3507
	 (2) Wheel Assembly No. 40-86 (2) Brake Assembly No. 30-55 (b) Two Main 4-Ply Rating Tires 6.00-6 with Regular Tubes 		104.7	1.70
X	One Nose Wheel 6.00-6 (a) Cleveland Aircraft Products Wheel Assembly No. 28501 (less byoks)	12.5	34.8	435
	Wheel Assembly No. 38501 (less brake (b) One Nose Wheel 4-Ply Rating Tire 6.00-6 with Regular Tubes	e arum)		:

PREPARED							
APPROVED	REPORT VB-162	REPORT VB-162 STANDARD EQUIPMENT LIST					
	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	, MOMENT (POUND- INCHES)			
Check if Installed	Electrical Equipment	WEIGHT	ARM ATT	(10,1204)			
X .	Stall Warning Device, Safe Flight Instrume Corporation, No. C52207-4	ent . 2	80. 2	16			
x	Voltage Regulator, Wico Electric No. X 16	gulator, Wico Electric No. X 16300 B .5					
	Battery 12V, 25 A.H., Rebat Model S-25	114.9	2470				
X	Overvoltage Relay, Wico Electric No. X16	5799 . 5	53.8	27			
	Instruments						
х .	Compass - Piper Drawing 67462	.9	64.9	58			
1	Airspeed Indicator - Piper Drawing 63205	. 6	. 66.8	40			
X	Tachometer - Piper Drawing 62177-2 or -	3 .7	66.2	46			
х	Engine Cluster - Piper Drawing 95241-7	.8	67.4	54			
Х	Altimeter - Piper Drawing 99009-2 or -3	1.0	65.9	66			
X	Ammeter - Piper Drawing 66696	. 3	67.4	20			
	Miscellaneous			200			
Х	Forward Seat Belts (2)	1.5	86.9	130			
	Baggage Tie Down Straps	.8	118.0	94			
Х .	Flight Manual		100, 6				
X	Tow Bar	1.3	104.7	136			

THE ABOVE ITEMS ARE INCLUDED IN THE AIRPLANE STANDARD EMPTY WEIGHT.

PREPARED		PIPER AIRGRAFT DEVELOPMENT CENTER, VERO	CORP. BEACH, FLA.	Weight and Model PA-	Balance Data -28-140		
APPROVED		REPORT VB-162 OPTIONAL EQUIPMENT		PAGE 10 Section 1			
		OPTIONAL EQUIPMENT MODEL PA-28-140	LIST	ARM AFT DATUM (NONCO)	N. V.		
	Ble tri.	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)		
Check if Installed	Engine A	ccessories		104.0			
х		mp, Airborne Mechanisms 10-113A1 or 113A5 or 200 cc			199		
	and Drive		5.0	37.0	185		
	MZ 4206)	Coming 76211 (Prestolite Weight 18.0 lbs.)	1.0 *	19.5	. 20		
<u> </u>	Oil Filter-1 #6437032)	Lycoming #74911 (AC 81-A	3.3	40.5	134		
х	Vacuum Re	gulator and Filter	2.2	57.0	125		
	Vacuum Re	gulator	1.5	56.0	84		
	Success 1360						
	Electric	al Equipment		. 6.3	34		
X		acon, Grimes #40-0101-7-12 #40-0101-15-12	1.5	263. 4	395		
X	Landing Lig	ght, G. E. Model 4509	.5	18.1	9		
<u> </u>	.,	Lights (2) Grimes Model I and Green)	.4	106.6	43		
X	Navigation Model 2064	Light (Rear)(1) Grimes (White)	.2	281.0	56		
<u>X</u>	Battery 12 (Weight 27.	V., 35 A.H. Reading R-35 0 lbs.)	5.5 *	114. 9	632		
	Strobe Ligh	t, Whelen Engineering Co.	2.7	217.4	587		

PREPARED	•	PIPER AIRGRAFT	2.7	Weight and	Balance Data	
HECKED		DEVELOPMENT CENTER, VERO REPORT VB-162		Model FA-2	8-140	
APPROVED		OPTIONAL EQUIPMEN		PAGE 11 Section 1		
Check if		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)	
Installed	Electric	al Equipment (Cont'd)				
х.	Cabin Light	Harr Cauge (technique)	.3	104.0	31	
x	Cabin Spea	ker	.8	104.0	83	
	Auxiliary P	Power Receptacle 65529	3.0	133.0	399	
	External Po	ower Cable 62355-7	4.6	117.0	538	
	Piper Pitch	Trim	4.3	155. 3	. 668	
:	Heated Pito	t Head	.4	100.0	40	
		Francisco de la reconstrucción	44.		1,00	
	P. C. 1.	n - Land Mark				
	Instrumo	ents				
х	Suction Gau	ige - Piper Drawing 67481	.5	67.2	34	
	Suction Gau	ige, U.S. Gauge AW1821AFO3	.5	67.2	34	
	Suction Gau	ige, Airborne Mechanisms 1G3	3-4 .5	67.2	34	
	Altimeter,	AN5760-2 (C-12 or C-13)	Same as Sta	ndard Equipn	nent Weight	
	Rate of Clin	mb - Piper Drawing 67468	1.0	65.9	66	
	Artificial H	Jorizon, Garwin (3")	1.8	64.9	117	
	Artificial H	lorizon, AIM (3")	2.2	64.4	142	
	Directional	Gyro, Garwin (3")	2, 4	64.7	155	
	Directional	Gyro, AIM (3")	3. 1	64.0	198	
	Attitude Gy	ro, R.C. Allen (3")	2, 2	65.6	144	
	Directional	Gyro, R.C. Allen (3")	3. 3	64.8	214	

CHECKED		PIPER AIRGRAFT DEVELOPMENT CENTER, VERO	Weight and Balance Da Model PA-28-140				
APPROVED	Section and section of the section of	REPORT VB-162 OPTIONAL EQUIPMENT	BEACH, FLA.	PAGE 12 Section 1			
		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)		
Check if Installed	Instrume	nts (Cont'd)					
x .	Manufacturi	ature Gauge, Rochester ng Co., No. 1592-C2 or anning, Maxwell & Moore)	. 2	82.6	17		
	Clock, 8-Da	ny - MIL-C-7939	.4	67.4	27		
Х	Tru-Speed I	Indicator, Piper Drawing 62143	Same as Sta	andard Equipm	ent Weight		
	Pictorial Ra	te of Turn, Mitchell 52D69	1.3	65.3	. 85		
:	Turn and Ba	nk, Piper Drawing 41711-2	2.2	64.9	143		
	Brittain Tur	n Coordinator #TC-100(12)	2.6	64.7	168.		
	R.C. Allen	Turn Coordinator #80-9	2.3	64.7	149		
		- System College	, 9	04.			
	AutoPilor	S	•				
	AutoFlite	P					
	Roll Ser	vo, Mitchell #1C363-1-183R	2.2	122.3	269		
	Gyro An	plifier, Mitchell #1C359-1	1.8	111.8	201		
	Cables		1.0	95.5	96		
	Panel Un	it	. 3	67.9	20		
	Omni Tracl	ker (#1D482)	.5	54.9	.27		
	New Joseph						
	1						

PREPARED		PIPER AIRGRAFT DEVELOPMENT CENTER, VER	Weight and Balance Data Model PA-28-140			
APPROVED	L	REPORT VB-1	PAGE 13 Section 1			
• • •		ITEM		WEIGHT (LBS)	ARM AFT, DATUM (INCHES)	MOMENT (POUND- INCHES)
Check if Installed	AutoPilots	(Cont'd)				
Y	AutoControl	III recogning verst.			15.18	1 87
	Roll Servo	, Mitchell #1C363-1-183R		2.5	122.2	306
1 0	Console,	Mitchell #1C338		1.2	65.1	78
	Cables	1.2	.7	95.5	67	
	Attitude G	yro, Mitchell #52D56 (Garwin)	1.9	64.9 .	123
	Attitude G	yro, Mitchell #52D66 (AIM)		2.3	64.4	148
	Directions	il Gyro, Mitchell #52D54 (Gar	win)	.2.5	64.7	162
	Directiona	l Gyro, Mitchell #52D54 (AIM)	3. 2	64.0	205
	Omni Couple	r, Mitchell #1C388		.9	. 64.3	58
	Harris a	rate Cuta, Stonic			ien B	
	Radio	Property Control Street	1.6		(2).6	
	PM-1 Marker	Beacon				
	Receiver	Open In the second	1.0	1.1	121.3	133
	Panel Unit	Oneal Conversion		.3	68.1	20
	Cable	Canal Little must be a		. 3	85.0	26
х	Omni Receiv	ing Antenna, Narco VRP-37		1.4	203.0	284
	Narco Mark	16	1			
	Transceiv	er, Single		7.5	61.9	464
	Transceiv	er, Dual		15.0	61.9	929

CHECKED		PIPER AIRGRAF DEVELOPMENT CENTER, VE		Weight and Model PA-2	Balance Data 8-140	
APPROVED	^	REPORT VB-1 OPTIONAL EQUIPME	PAGE 14 Section 1			
i.,		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)	
Check if Installed	Radio	(Cont'd)				
х .	VHF Anteni	na, Transmitting VHF-1	.3	157.8	47	
	VHF Antenn	a, Transmitting VHF-2	.3	192. 8	58	
Х	Cable, V	/HF-1	. 4	118.0	47	
	Cable, V	/HF-2	.5	135.0	68	
1.	Low Freque	ncy Antenna	.5	167.0	84	
	a Calebra	MECHA			102	
	Transfer &	12 A or Narco Mark I2B		(1.0	(14)	
	Tile to the	iver, Single	. 6.0	. 61.9	371	
		iver, Dual	12. 0	61.9	743	
		or-Power Unit, Single	4.0	146.8	5,87	
		or-Power Unit, Dual	8.0	149.7	1198	
	Cable, S	ingle	1.8	120.0	216	
	Cable, I	Oual ·	3.8	120.0	456	
	Narco VOA	-6 Omni Convertor	1.8	64.4	116	
	Narco VOA	-5 Omni Convertor	3. 1	64.4	200	
	Narco VOA	-4 Omni Convertor	3.0	64.4	193	
	Narco Mari	k III	7.5	62.7	470	
	Narco Mar	k VIII	7.5	62.7	470	
	Narco VOA	-50M Omni Convertor	2.1	64.9	136	
	Narco VOA	-40.Omni Convertor	1.9	64.9	123 '	
	Narco VOA	-40 Omni Convertor	1.9	64.9	123	

PREPARED		Weight and Balance Data Model PA-28-140			
APPROVED		DEVELOPMENT CENTER, REPORT OPTIONAL EOU	PAGE 15 Section 1		
		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MQMEN' (POUND-INCHES)
Check if Installed	Radio (C	ont'd)		4	
	Bendix ADF-	Γ-12			
	Receiver		3.8	64.0	243
	Audio Amp	olifier	. 8	64.0	51
	Radio Con	npass	1.7	66.4	113
	Loop Ante	nna	1.2	160.8	193
	Cable, An	tenna	1.5	108.0	162
·.··	Sense Anto	enna and Cable	. 4	150.0	60
<u>^ · · </u>	Microphone ·	RAPAR CARE	.5	75.0	38
	Headset		.5	65.0	33
	Narco ADF-3	1			
	. Panel Unit		4.8	63.5	305
	Sensor Un	it and Doublers	2.2	162.7	358
	Sensor Ca	ble	2, 3	105.6	243
	Sense Ante	enna and Cable	.4	150.0	60
3	Narco VOA-8	Omni Convertor	3.3	64.4	213
	Narco VOA-9	Omni Convertor	3.4	64.4	219
	Narco UDI-4	DME	3.0		
	Receiver		8.5	61.7	524
	Antenna		. 3	113. 9	34
	Cable, An	tenna :	.4	100.0	40

PRIPARED		PIPER AIRGRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FL		Weight and Balance Dat Model PA-28-140		
APPROVED		REPORT VB-162 OPTIONAL EQUIPMEN	PAGE 16 Section 1			
		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)	
Check if Installed	Radio	(Cont'd)				
	UGR-2 Glide	e Slope .				
	Receiver		2.4	141.8	340	
	Cable		1.8	- 106.0	191	
	Antenna		. 4	92.4	37	
1	Cable, A	ntenna	.5	145.0	. 73	
: :	Transmitte	Selector (Dual VHF Only)	.7	66.3	46	
X	Junction Box GENAUE	ALPHA 200	.6.	66.3 61.0	40. 3.23.3	
	A. Come					
-	p-passed.					
	Miscella	neous				
	Fire Exting	uisher - Stop Fire #A-20	7.5	93.0	698	
-	Fire Exting (With Brack	uisher - Kidde Kompact VI ets) •	5.3	85. 0	451	
Х	Nose Wheel	Fairing - Piper Dwg. 65348	3.8	34.8	132	
Х	Main Wheel	Fairings - Piper Dwg. 65237	7.0	109.6	767	
	Toe Brakes	(Dual)	10.5	54.6	573	
	Toe Brakes	(Single)	5.0	54.6	273	
X	Assist Step		1.8	156.0	281	
	Inertia Safe (Set of 2)	ty Belt	2.5	111.6	279	
Х	Lighter	3.1 7	. 2	67.9	14	

CHICKED		PIPER AIRGRAFT DEVELOPMENT CENTER, VERO	GORP. BEACH, FLA.	Weight and Model PA	Balance Data \-28-140
APPROVED		REPORT VB-162 OPTIONAL EQUIPMENT	LIST .	PAGE 17 Se	ction 1
		ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
Check if Installed	Miscellan	eous (Cont'd)			
Х.	Jump Seat In	stallation, Piper Drawing 66664			
X	Jump Seat	s (2)	16.2	118.0	1912
х	Jump Seat	Belts and Cables	1.1 *	123.0	135
	Close Out	Panel	7.3 *	140.6	1026
Х	Ventilator	s (2)	1.0	100.9	. 101
X	Ash Tráys	; (2)	.8	110.2	- 88
х	Assist Str	ap and Coat Hook	. 2	109.5	22.
	Baggage T	ie Down Straps	.8	126.7	101
	Adjustable F	ront Seat (Left)	3.8 *	85.5	325
	Adjustable F	ront Seat (Right)	3.8 *	85.5	325
	Overhead Ver	nt System	1.2	130.0	156
		PPTIONAL EQUIPMENT	54.6	102.1	5574
EXTERIOR	FINISH				
		Juneau White			
	Trim Color	Beaumont Blue			
	Accent Color				
	Registration	No. Color Beaumont Blue	nu di		
		Lacquer			
	-				

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUC for instruc	TIONS: Print or t	type all entries. See I	FAR 4	43.9,	FAR 43 Append	ix B, and	AC 43.9-	1 (or subseq	uent rev	ision t	hereof)
1. AIRCRAFT	MAKE Pin	The second secon			W	ODEL	400	PA-28-1	40 "	C"	
I. AIRCKAPI	SERIAL NO 28.	-26671			NATIONALITY AND REGISTRATION MARK 5840U						
2. OWNER	Jones, V	Jones, Joyce W.			ADDRESS (As shown on registration certificate) 1040 45TH Street N.E. Washington, D.C. 20019						
			3	. FOR	R FAA USE ONLY		M. Ye all of	1	FF 4		
		A IIW	IT ID	MTIC	CATION	100					
THE REAL PROPERTY.			וטו ווו	וזוווו	ICATION	44.50			201	5.	TYPE
TINU		MAKE	1		MODEL	Salv	N. Land	SERIAL NO.	R	EPAIR	ALTER-
AIRFRAME		(As des	scribe	d in item 1 above	•)•••••	••••••				xx
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PROPELLER											
APPLIANCE	MANUFACTURER						7	W 197			
		324	6	CONFO	DRMITY STATEMEN	T	2 2	1.25	3.9	38.4	
A.	AGENCY'S NAM	E AND ADDRESS	-		B. KIND		NCY	C.	CERTIF	ICATE	NO.
	es W. Char			X	U.S. CERTIFICATED	MECHANI	С	1. 1. 1. 1.	37 1		
% Mon	tgomery Co	ounty Airparl	K	4	FOREIGN CERTIFICA			A&	P 15	3667	1
Gaith	ersburg, M	d 20760		-	MANUFACTURER	IFICATED REPAIR STATION				5	
attaciiii	icites nereto nave	and/or alteration mabeen made in accorda furnished herein is to	nce v	vith t	unit(s) identifie	Of Part	43 of the	I C Fadanal	ed on the	he rev	erse or
DATE	ust 27, 19	on the other to	C. I	-	NATURE OF AU		G OF THE STATE OF		2 29	- 18	1
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Duren -	o the suit is				OR RETURN TO S		114		77.7		
the Admin	istrator of the Fed	ven persons specified leral Aviation Administ	below tration	, the n and	unit identified i	n item 4 VED	was inspec REJECTEI	cted in the r	manner p	rescril	bed by
FA	A FLT. STANDARDS	MANUFACTURER	X	INSP	ECTION AUTHORIZAT	ION	OTHER (Spe		THE	1911	
8	AA DESIGNEE	REPAIR STATION	Car	OF T	ADIAN DEPARTMENT TRANSPORT INSPECTO AIRCRAFT						
REJECTION	7-70	CERTIFICATE OR DESIGNATION NO		_	NATURE OF AU	THORIZE	D INDIVID	DUAL 1/		12 31	-50,
	337 (7-67)	15366717	4	C	transles l	04	Canal	Ver			
MA FORM	337 (7-07)								-	(8320)

NOTICE

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

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) Installed a Genave Alpha 200 in accordance with the manufacturers instructions and recomendations, using the existing antennas. This installation complies with AC 43.13-2 Chapter 2 as applicable. Computed wt. & bal. data and entered in the aircraft records. Revised the equipment list to reflect this change. **** END ****

ADDITIONAL SHEETS FARE ATTACHED