

PREPARED	PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	Airplane Flight Manual Model PA-25-260
CHECKED		
APPROVED		PAGE _____ Title _____

AIRPLANE FLIGHT MANUAL

MODEL PA-25-260

THIS DOCUMENT MUST BE KEPT IN AIRPLANE AT ALL TIMES

FAA APPROVED:

Henry C. Faller
Henry C. Faller, Supervisor
MIA EMDO Miami, Florida

DATE: April 19, 1967

PROCEDURES

When this Flight Manual (Report) is revised, the Manager of Engineering Services must issue a copy of the revision with an information memo to the Service Publications Specialist of the Customer Service Department.

MEMO FORMAT

This report is revised; a copy enclosed. Please initiate the appropriate action to supply aircraft owners with the revised copies.

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CHECKED John B. Bryerton		
APPROVED John B. Bryerton		PAGE <u> </u> Revision <u> </u>

Log of Revisions

REVISION NO.	PAGE	DESCRIPTION	APPROVED	DATE
1	1/3 and 4	Engine-Lycoming Model O-540-G2A5 Added. (Controllable Pitch Prop Only) added to O-540-G1A5 engine.		3/11/77
2	6	Emergency Locator Installation per PAC Dwg. 66083-2 Added.	<i>Paul E. Everly</i> Paul E. Everly DOA Coordinator October 10, 1978 DOA EA-1	10/10/78
3	3/3	Noise Abatement Added	<i>Paul E. Everly</i> Paul E. Everly DOA Coordinator November 3, 1980 DOA EA-1	11/03/80

PIPER AIRCRAFT CORPORATION

LOCK HAVEN, PENNA.

REPORT.....
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LOG OF REVISIONS

Rev.	Page	Change	Date	Approved
A	5	Beacon WRML-12 Added	8-13-74	<i>W.K.</i>
B	4	Engine-Lycoming Model 0-540-G2A5 Added	3/11/77	<i>W.K.</i>
C	6	"Spray pump, bracket, windmill & tubes with shut-off valve & control cable" added; Fire Ext. with bracket per 64994 added:	4-21-77	R. Edmonston <i>RBE</i> K. Eminhizer H.L.E.
	7	Micronair #AU3000 added:		
D	6	Emergency Locator Instl. per PAC Dwg. 66083-2 Added	10/10/78	<i>PE Ever</i> Paul E. Ever DOA Coordinator Oct. 10, 1978 DOA EA-1
E	1,7	Note Added	5/27/80	<i>R. De...</i> P. Isabella

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Piper Model PA-25-260
Normal Category Only

FAA Identification No. _____
Serial No. _____

AIRPLANE FLIGHT MANUAL

1. Limitations Section The following limitations must be observed in the operation of this airplane:
 - Engine Lycoming O-540-G1A5, (Controllable Pitch Prop Only)
O-540-G2A5, (Fixed Pitch Prop Only)
 - Engine Limits For all operations 2700 rpm, 260 hp.
 - Fuel 100/130 minimum octane aviation fuel
 - Propeller McCauley 1A200/FA, 52-inch pitch. Maximum diameter 84 inches, minimum diameter 82.3 inches.

Hartzell HC-C2YK-1B/8477-0, low pitch stop 11.8 degrees, high pitch stop 32.0 degrees, maximum diameter 84.0 inches, minimum diameter 83.0 inches.

McCauley B2D34C16/84 HF-0 low pitch stop 11.0 degrees, high pitch stop 27.0 degrees, maximum diameter 84.0 inches, minimum diameter 82.5 inches.
 - Power Instruments Oil temperature: GREEN arc (Normal operating range) 120°F to 245°F, YELLOW arc (caution range) 40°F to 120°F, RED line (maximum) 245°F.

Oil pressure: GREEN arc (normal operating range) 60 psi to 90 psi, YELLOW arc (caution range) 25 psi to 60 psi, RED line (minimum) 60 psi, RED line (maximum) 90 psi.

Tachometer: GREEN arc (normal operating range) 500 to 2700 rpm, RED line (maximum continuous power) 2700 rpm.
 - Airspeed Limits (Calibrated Airspeed) (Miles per Hour)

Never exceed	156
Maximum structural cruise	124
Maneuvering	120
Flaps extended	109
Maximum positive load factor	3.8
Maximum negative load factor	No inverted maneuvers
 - Operation Day VFR only

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Maximum Weight 2900 lbs.

C.G. Range The datum used is 78 inches forward of the wing leading edge.

WEIGHT (POUNDS)	FORWARD LIMIT (IN. AFT OF DATUM)	REARWARD LIMIT (IN. AFT OF DATUM)
2900	88.42	90.30
1793	85.60	90.30

Straight line variation between points given.

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

Maneuvers No acrobatic maneuvers including spins approved.

- Placards
1. On the instrument panel in full view of the pilot:
"THIS AIRPLANE MUST BE OPERATED IN THE RESTRICTED CATEGORY IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS AND MARKINGS. ACROBATIC MANEUVERS (INCLUDING SPINS) PROHIBITED. FOR NORMAL CATEGORY OPERATION, REFER TO AIRPLANE FLIGHT MANUAL."
 2. On hopper: "MAXIMUM CAPACITY 1200 POUNDS."
 3. On check list above instrument panel:
"WINDOWS CLOSED." The windows should be kept closed in flight because the climb performance is reduced with windows open.
 4. On the instrument panel in full view of the pilot:
"NO SMOKING."
 5. On the instrument panel in full view of the pilot:
"ROUGH AIR OR MANEUVERING SPEED 120 MPH."
 6. On safety panel above instrument panel in full view of pilot:
"UNUSABLE FUEL 2.5 GALLONS. WHEN FUEL QUANTITY INDICATOR READS ZERO, FUEL REMAINING IN TANK CANNOT BE USED SAFELY IN FLIGHT."

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DATE February 7, 1974

7. Above fuel quantity gauge:
"FUEL CAPACITY 36 GALLONS"
8. Adjacent to low fuel level light on auxiliary instrument panel:
"LOW FUEL WARNING"

Airspeed Instrument
Markings

RED radial line	Never exceed	156 mph (135 knots)
YELLOW arc	Caution Range (Smooth Air Only)	124 to 156 mph (108 to 135 knots)
GREEN arc	Normal Operating Range	61 to 124 mph (53 to 108 knots)
WHITE arc	Flap Down Range	60 to 109 mph (52 to 95 knots)

2. Procedures Section

1. The stall warning system is inoperative with the master switch off.
2. The low fuel warning light is inoperative with master switch off.
3. When low fuel warning light first illuminates, approximately 4.5 gallons remain usable.
4. Except as noted above, all operating procedures for this airplane are normal.

3. Performance

Loss of altitude during stalls varies from 100 ft. to 200 ft. depending on configuration and power.

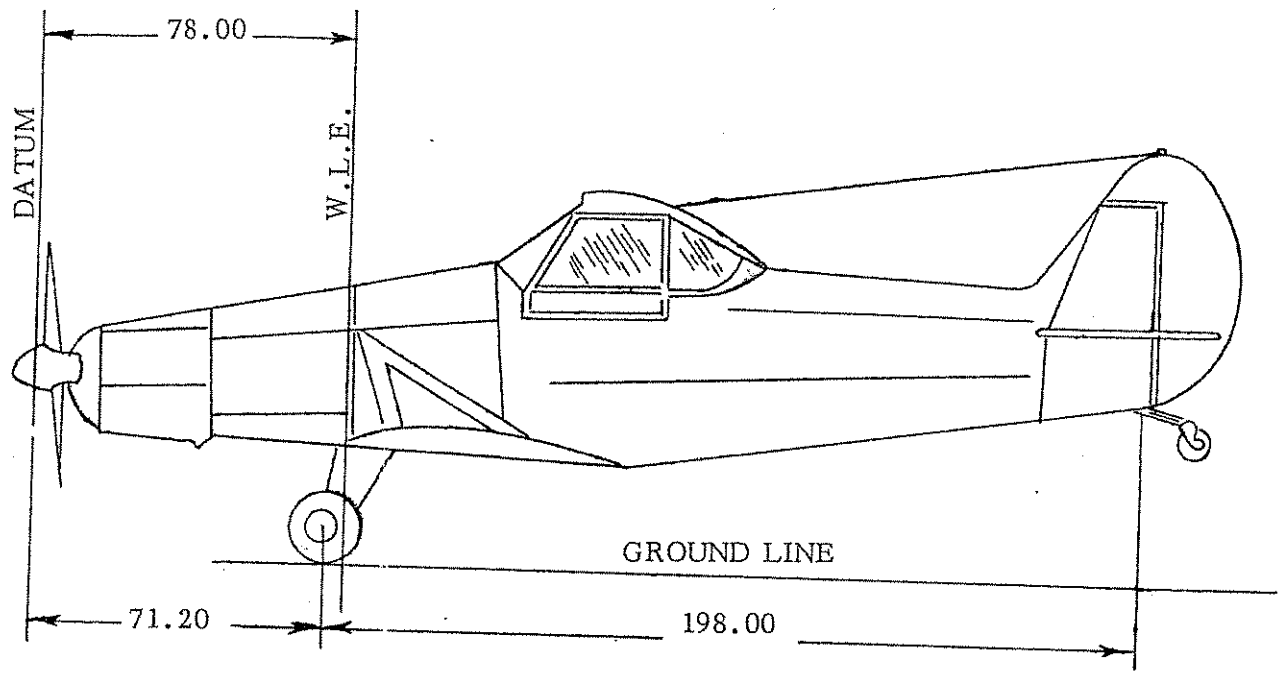
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ACTUAL WEIGHT AND BALANCE
MODEL PA-25-260 (NORMAL)

SERIAL NO. 25- CERTIFICATE NO. N DATE _____



AIRPLANE WEIGHING DIAGRAM

EMPTY WEIGHT AS WEIGHED (INCLUDES ITEMS CHECKED ON PAGES 4, 5, AND 6)

	<u>SCALE READING</u>	<u>TARE</u>	<u>NET</u>
LEFT WHEEL	_____	_____	_____
RIGHT WHEEL	_____	_____	_____
TAIL SCALE	_____	_____	_____ (N)
TOTAL			_____ (T)

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EMPTY WEIGHT C.G. AS WEIGHED

$198 \times \text{_____ (N) = _____ (R) Inches}$
(T)
Empty Weight C.G. Aft of Datum is:
 $71.20 + \text{_____ (R) = _____ (P) Inches}$

EMPTY WEIGHT AND C.G. WITH UNUSABLE FUEL

Item	Weight	Arm	Moment
Empty Weight as Weighed	(T)	(P)	
Unusable Fuel (2. gallons)	12	55	660
Total	(V)	(W)	(X)

MOST FORWARD C.G. LOADING CONDITION

Item	Weight	Arm	Moment
Empty Weight	(V)	(W)	(X)
Oil (12 quarts)	23	30	690
Fuel (.36 gallons)	216	63	13608
Pilot	170	135	22950
Hopper Load	0	93	0
Total	(Y)		(Z)

Most Forward C.G. is _____ (Z) = _____ Inches Aft of Datum
_____ (Y)

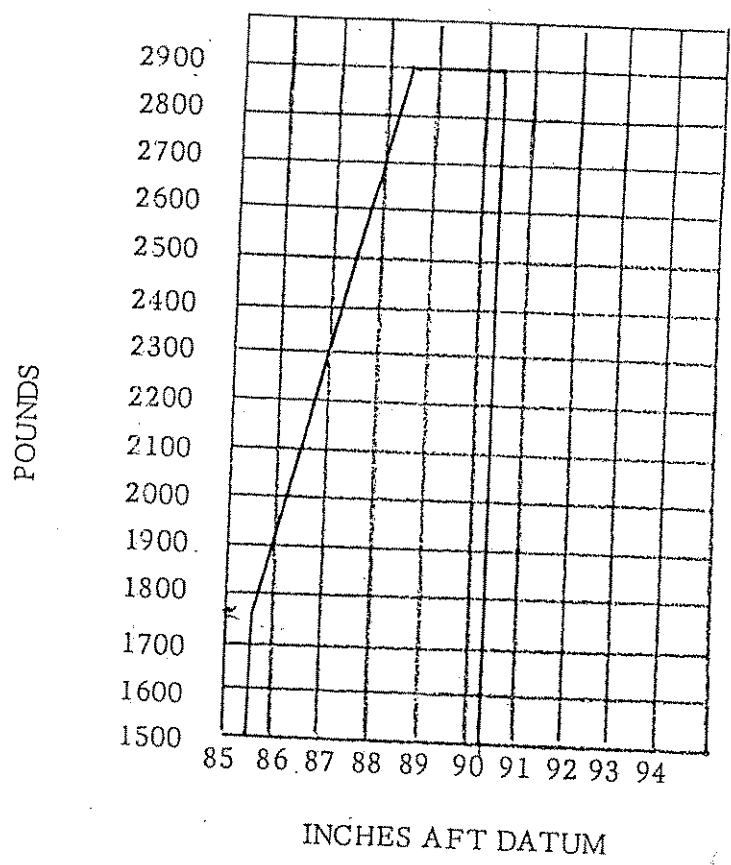
MOST REARWARD C.G. LOADING CONDITION

Item	Weight	Arm	Moment
Empty Weight	(V)	(W)	(X)
Oil (12 quarts)	23	30	690
Fuel (1.2 gallons)	75	57	4275
Pilot	170	135	22950
Hopper Load		93	
Total	2900		(M)

Most Rearward C.G. is $\frac{2900}{\text{_____}} (M) = \text{_____} \text{ Inches Aft of Datum}$

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APPROVED C.G. RANGE VS. WEIGHT



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DATUM LINE IS 78 INCHES FORWARD OF WING LEADING EDGE

	Weight (lbs)	Arm Aft Datum	Cert. Basis
<u>Engine and Engine Accessories</u>			
Engine-Lyc. Model 0-540-G2A5 (Carb. Setting #10-4404-1)	383.4	(25.1)	TC 295
* Engine-Lyc. Model 0-540-G1A5 (Carb. Setting #10-4404-1)	386.4	(25.1)	TC 295
Oil Cooler, Piper Drawing 24577 Installed in accordance with PAC Drawing 66064	4.0	(25.9)	TC 2A8
Oil Filter-AC5578941, Lycoming #75528 - Replace Element #AC 6435683	2.0	(48.0)	TC 2A8
Starter - Prestolite MZ - 4206	17.0	(14.9)	TC 295
<u>Propeller & Propeller Accessories</u>			
Propeller-McCauley #1A200/FA8452	42.5	(5.4)	TC 874
Spinner and Attachment Plate	2.0	(4.4)	TC 2A8
* Propeller-Hartzell HC-C2YK-1B/8477-0	55.0	(2.4)	TC 920
* Governor - Hartzell F-4-11	5.5	(6.8)	_____
* Propeller-McCauley B2D34C16/84 HF-0	52.0	(2.4)	TC P7EA
* Governor-McCauley C290D2/T10	3.0	(6.8)	_____
<u>Landing Gear</u>			
Two Main 4-Ply Rating Tires 8.00-6 Type III Rib Tread with Regular Tubes	12.0 ea.	(71.2)	TC 2A8
Landing Gear Bungee Shock Strut Assembly - PAC 64052-03	12.0	(78.0)	TC 2A8

*Denotes Optional Equipment

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<u>Landing Gear - Continued</u>	<u>Weight (lbs)</u>	<u>Arm Aft Datum</u>	<u>Cert. Basis</u>
Two Main Wheel Assemblies (With #30-41 Brake Assemblies) 6.00-6 Type III Cleveland Aircraft Products No. 40-84A	8.0	(71.2)	FAA TSO-C26
* Landing Gear Oleo Shock Strut Assembly - Syncro Devices Nos. SKA 300-10-1 L.H., SKA 300-10-2 R.H.	19.0	(78.0)	TC 2A8
Tail Wheel Assembly - Scott Model 3200-3	7.5	(280.0)	TC 2A8
<u>Electrical</u>			
Battery Rebat #R-35	26.5	(231.0)	TC 2A8
Alternator - Prestolite #LW 10009 (12 V, 60 Amp)	10.7	(13.7)	TC 2A8
* Nose Cowl Landing Light, G.E. or Westinghouse Model 4509, PAC Drawing 64709	1.0	(17.0)	TC 2A8
* Turn & Bank Indicator, R.C. Allen #A2475 - 102 per PAC Drawing 64682	2.0	(115.0)	TC 2A8
* Genave NAV/COM Installation per PAC Drawing 60244	8.8	(135.0)	TC 2A8
○ Emergency Locator Transmitter Inst. (PAL) per PAC Drawing #60265	2.0	(172.0)	TC 2A8

*Denotes Optional Equipment

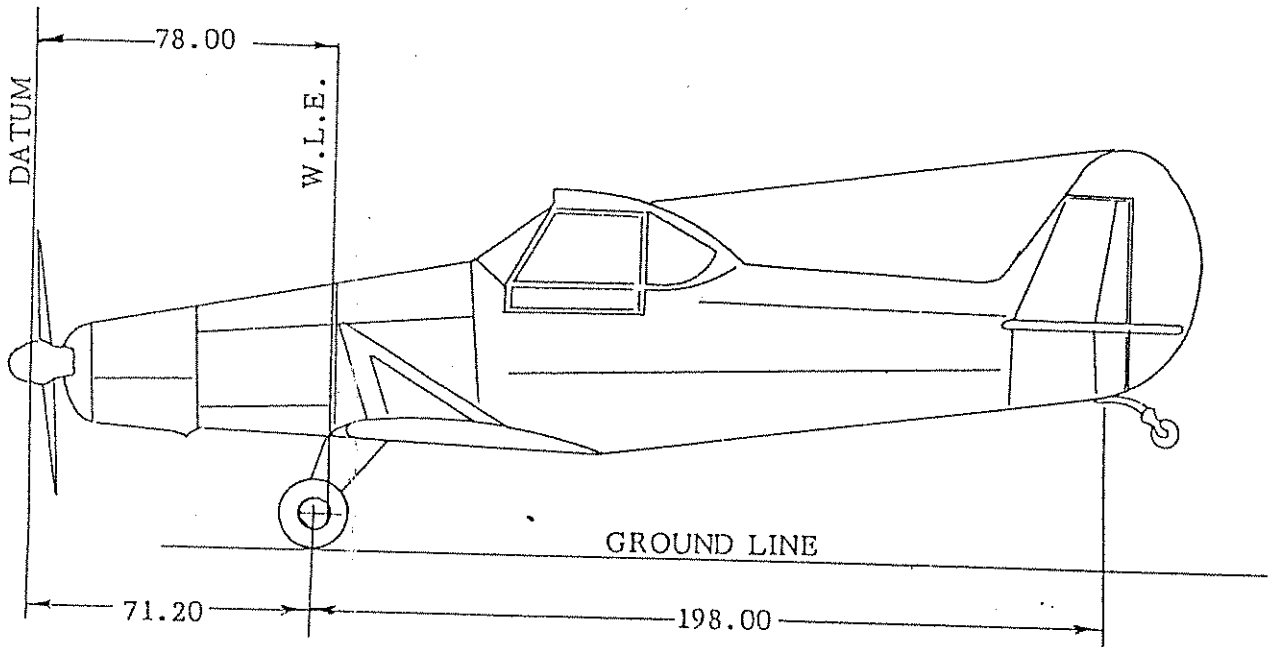
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<u>Miscellaneous</u>	<u>Weight (lbs)</u>	<u>Arm Aft Datum</u>	<u>Cert. Basis</u>
_____ Stall Warning Device Installation per PAC Drawing 64031	Neglect Weight Change		TC 2A8
* _____ Fire Extinguisher (with bracket) per PAC Dwg. 60130	5.0	(140.0)	TC 2A8
_____ Cockpit Fan Installation per PAC Drawing 64732	8.0	(105.0)	TC 2A8
_____ Fire Extinguisher Installation per PAC Drawing 64974	8.0	(52.0)	TC 2A8
* _____ Constant Speed Propeller Installation per PAC Drawing 66069 (Excluding Propeller and Governor)	3.0	(115.0)	TC 2A8
* _____ Emergency Locator Installation per PAC Dwg. 66083-2	4.2	(172.0)	TC 2A8

*Denotes Optional Equipment

PIPER AIRCRAFT CORPORATION
 ACTUAL WEIGHT AND BALANCE
 MODEL PA-25-260 (RESTRICTED)

SERIAL NO. 25- _____ CERTIFICATE NO. N _____ DATE _____



AIRPLANE WEIGHING DIAGRAM

EMPTY WEIGHT AS WEIGHED (INCLUDES ITEMS CHECKED ON PAGES 4, 5, 6, & 7)

	SCALE READING	TARE	NET
LEFT WHEEL	_____	_____	_____
RIGHT WHEEL	_____	_____	_____
TAIL SCALE	_____	_____	_____ (N)
TOTAL			_____ (T)

NOTE: In the equipment list, pages 4 thru 7, "X" denotes equipment included in the above scale weights, "XX" denotes specific agricultural equipment on board for delivery purposes only and not included in the scale weights.

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EMPTY WEIGHT C.G. AS WEIGHED

198 X _____ (N) = _____ (R) Inches
 _____ (T)

Empty Weight C.G. Aft of Datum is:

71.20 + _____ (R) = _____ (P) Inches

EMPTY WEIGHT AND C.G. WITH UNUSABLE FUEL

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Empty Weight as Weighed	(T)	(P)	
Unusable Fuel (2. gallons)	12	55	660
Total	(V)	(W)	(X)

MOST FORWARD C.G. LOADING CONDITION

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Empty Weight	(V)	(W)	(X)
Oil (12 quarts)	23	30	690
Fuel (36 gallons)	216	63	13608
Pilot	170	135	22950
Hopper Load	0	93	0
Total	(Y)		(Z)

Most Forward C.G. is _____ (Z) = _____ Inches Aft of Datum
 _____ (Y)

MOST REARWARD C.G. LOADING CONDITION

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Empty Weight	(V)	(W)	(X)
Oil (12 quarts)	23	30	690
Fuel (gallons)	75	57	4275
Pilot	170	135	22950
Hopper Load		93	
Total	2900		(M)

Most Rearward C.G. is _____ (M) = _____ Inches Aft of Datum
 2900

APPROVED C.G. RANGE VS. WEIGHT
(RESTRICTED CATEGORY)

