GENERAL SPECIFICATIONS

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GENERAL SPECIFICATIONS

PERFORMANCE

Published figures are for Standard PA-23-250 airplanes flown at gross weight under standard conditions at sea level unless otherwise stated. Performance for a specific airplane may vary from published figures depending upon the equipment installed, the condition of engines, airplane and equipment, atmospheric conditions and piloting technique.

	Normally Aspirated	Turbo Charged
Take-off Run (max effort) (ft)	820	820
Take-off Distance Over 50-ft Barrier (max effort) (ft)	1250	1250
Accelerate-Stop Distance (ft)	2220	2220
Minimum Controllable Single Engine Speed (mph)/(knots)	80 (69.5)	80 (69.5)
Stalling Speed (gear down, flaps down 50°) (power off) (mph)/(knots)	70 (61)	70 (61)
Stalling Speed (gear and flaps up) (power off) (mph)/(knots)	76 (66)	76 (66)
Best Rate of Climb (ft per min)	1490	1530
Best Rate of Climb Speed (mph)/(knots)	120 (102)	115 (100)
Best Angle of Climb Speed (mph)/(knots)	107 (93)	97 (84.5)
Single Engine Rate of Climb (ft per min)	240	265
Best Single Engine Rate of Climb Speed (mph)/(knots)	102 (88.5)	104 (90)
Best Single Engine Angle of Climb Speed (mph)/(knots)	97 (84.5)	95 (82.5)
Absolute Ceiling (ft)	21,100	over 30,000
Service Ceiling (ft)	19,800	over 30,000
Single Engine Service Ceiling (ft)	5000	15,300
Single Engine Absolute Ceiling (ft)	6400	18,700
Landing Roll (Flaps down) (Max effort) (ft)	850	850
Landing Distance Over 50-ft Barrier (Flaps down) (ft)	1620	1620

ALTITUDE CRUISING SPEEDS (MPH)

Normally Aspirated

	Man. Press. (in Hg)	Engine Speed (rpm)	Altitude (feet)	Speed (mph)	Speed (knots)	Range No Reserve (miles)	Fuel Con. (gph)
Normal	26	2400	4,000	210	(183)	830	34.0
Intermediate	24	2400	6,000	208	(181)	1080	27.0
Economy	24	2200	6,400	204	(177)	1110	25.0
Long Range	20	2200	10,200	195	(170)	1210	21.0

ALTITUDE CRUISING SPEEDS (MPH) (cont)

Turbo Charged
TIO-540-C1A

	Man. Press. (in Hg)	Engine Speed (rpm)	Altitude (feet)	Speed (mph)	(knots)	Range No Reserve (miles)	Fuel Con. (gph)
Turbo	34.0	2400	22,000	245	(213)	1050	32.6
Intermediate	30.0	2400	24,000	233	(203)	1125	29.0
Economy	26.0	2400	24,000	218	(190)	1175	26.0
Long Range	24.0	2200	24,000	196	(170)	1310	21.0

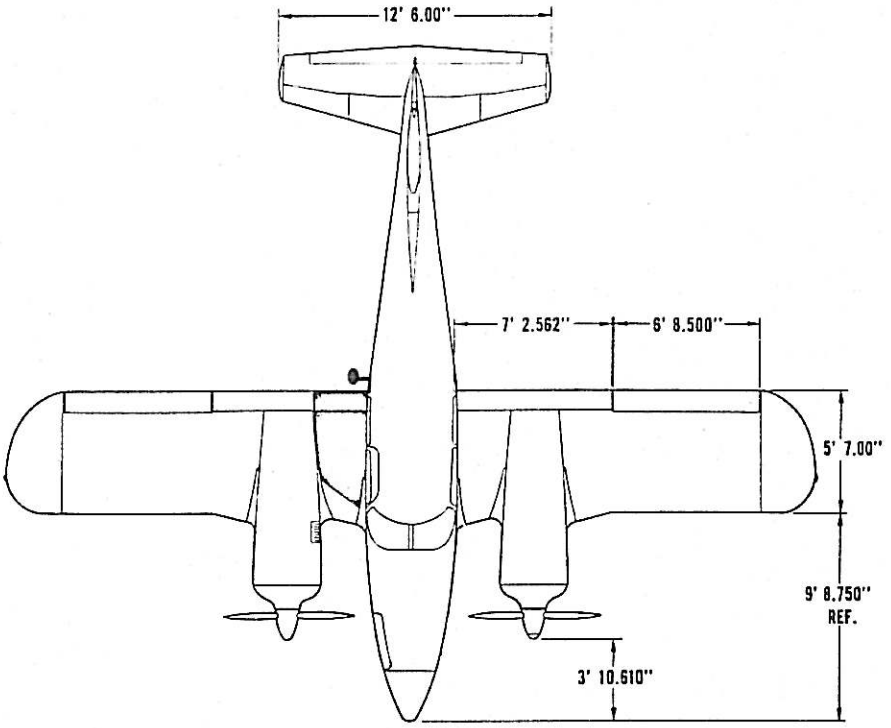
W GHTS	Normally Aspirated	Turbo Charged
Gross Weight (lbs)	5200	5200
Maximum Landing Weight (lbs)	4940	4940
Zero Fuel Gross Weight (lbs)	4400	4500
Empty Weight (Standard, lbs)	3042	3229
USEFUL LOAD (Standard, lbs)	2158	1971

POWER PLANT		
Engine (Lycoming)	IO-540-C4B5	TIO-540-C1A
Rated Horsepower	250	250
Rated Speed (rpm)	2575	2575
Bore (inches)	5.125	5.125
Stroke (inches)	4.375	4.375
Displacement (cu. in.)	541.5	541.5
Compression Ratio	8.5:1	7.2:1
Dry Weight (lbs)	402	490

FUEL AND OIL		
Fuel Capacity (U.S. gal)	144	144
Usable Fuel		
~~Ser. nos. 27-4426, 27-4574 thru 27-7405476~~	~~140~~	140
Ser. nos. 27-7554001 and up	137	137
Fuel Aviation Grade (min octane)	91/96	100/130
Oil Capacity (qts) each Engine	12	12

		Normally Aspirated	Turbo Charged
BAGGAGE			
Maximum Baggage (lbs) Forward Compartment		150	150
Maximum Baggage (lbs) Rear Compartment		150	150
With oxygen installed		105	105
Baggage Space (cu ft) Forward Compartment		21.3	21.3
Baggage Space (cu ft) Rear Compartment		25.4	25.4
Baggage Door Size (in) Forward Compartment		19.5 x 30.5	19.5 x 30.5
Baggage Door Size (in) Rear Compartment		30 x 31	30 x 31
DIMENSIONS			
Wing Span (ft)		37.2	37.2
Wing Area (sq ft)		207.6	207.6
Length (ft)		31' 2.625"	31' 2.625"
Height (ft)		10.3	10.3
Wing Loading (lbs per sq ft)		25.05	25.05
Power Loading (lbs per hp)		10.4	10.4
Propeller Diameter (maximum, in)		77	77
LANDING GEAR			
Wheel Base (ft)		7.5	7.5
Wheel Tread		11.3	11.3
Tire Pressure	Nose	27	27*
	Main	46	46
Tire Size	Nose (four ply rating)*	600 x 6	600 x 6
	Main (eight ply rating)	700 x 6	700 x 6

*On turbocharged Aztec "E" only with serial no. 27-4781 and subsequent, nose tire is 6.00 x 6, six ply rating and should be inflated to 32 psi.



445,75 - 15,4 = 11,322

