
1984

Seneca III





BENECA III





REGISTERED AIRCRAFT N3484T

39.1 00.69

257 1824

12250 13225

11220 11000

12130 12610

4 11230 1114 3.8



1:54

ALTERNATE STATIC SOURCE
 ALL LOW VOLTAGE AND
 POWERED INSTRUMENTS
 MUST BE ON
 MAIN BUS TO OPERATE
 SYSTEM SHOWN



INSTRUMENTS					ELECTRICAL				
5	5	5	5	5	8	8	8	8	35
TURN & BANK	END GAGES	FUEL PUMPS	ALT FIELD	DE-ICE					
1	2	L	R	ELECTRICAL					
START	LANDING GEAR	PIST HEAT	STALL	RADAR	PROP SYNC	AMB COV	F/A	ACC	HEAT
10	25	15	15	10	5	20			
5	5	5	10	10	5	10			
NOV	RADIO	W/ICE	NAV POS	ANTI COLL	L LAND	R PANEL	FLOOD	ACC	
1	10	5	5	10	10	5	5	5	5
FCR	AUTO PILOT	PITCH TRIM	COMPASS	VHF	NAV/ISS	NAV	1	ADF	
5	5	5							
NOV	TRANS	PONDER	ONE	RF COM	NAV PROG	CONV	RADAR	ALT	L-AUDIO

001 1200

PROP SYNC OFF 1 2

WARNING: AIR CONDENSER MUST BE OFF PRIOR TO TAKE-OFF AND LANDING AND FOR ALL ICE ENGINE OPERATIVE OPERATIONS.

COOLERS

Piper Aircraft Corporation

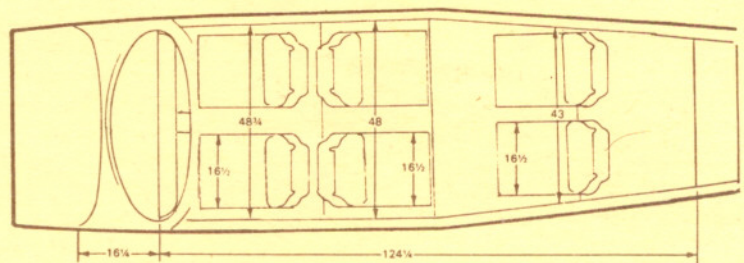
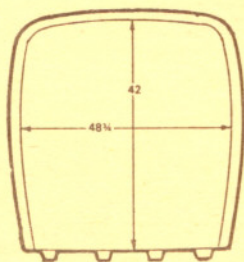
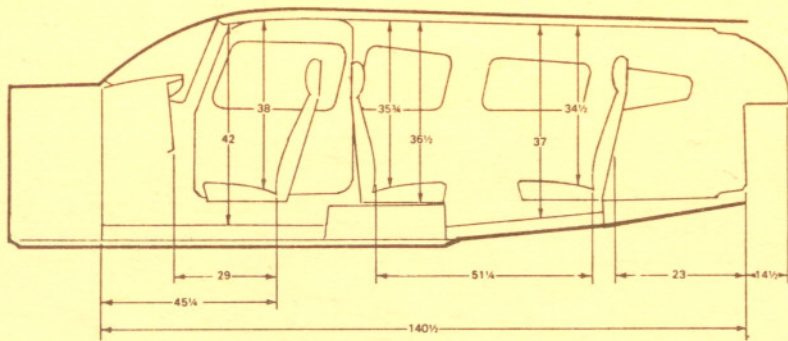
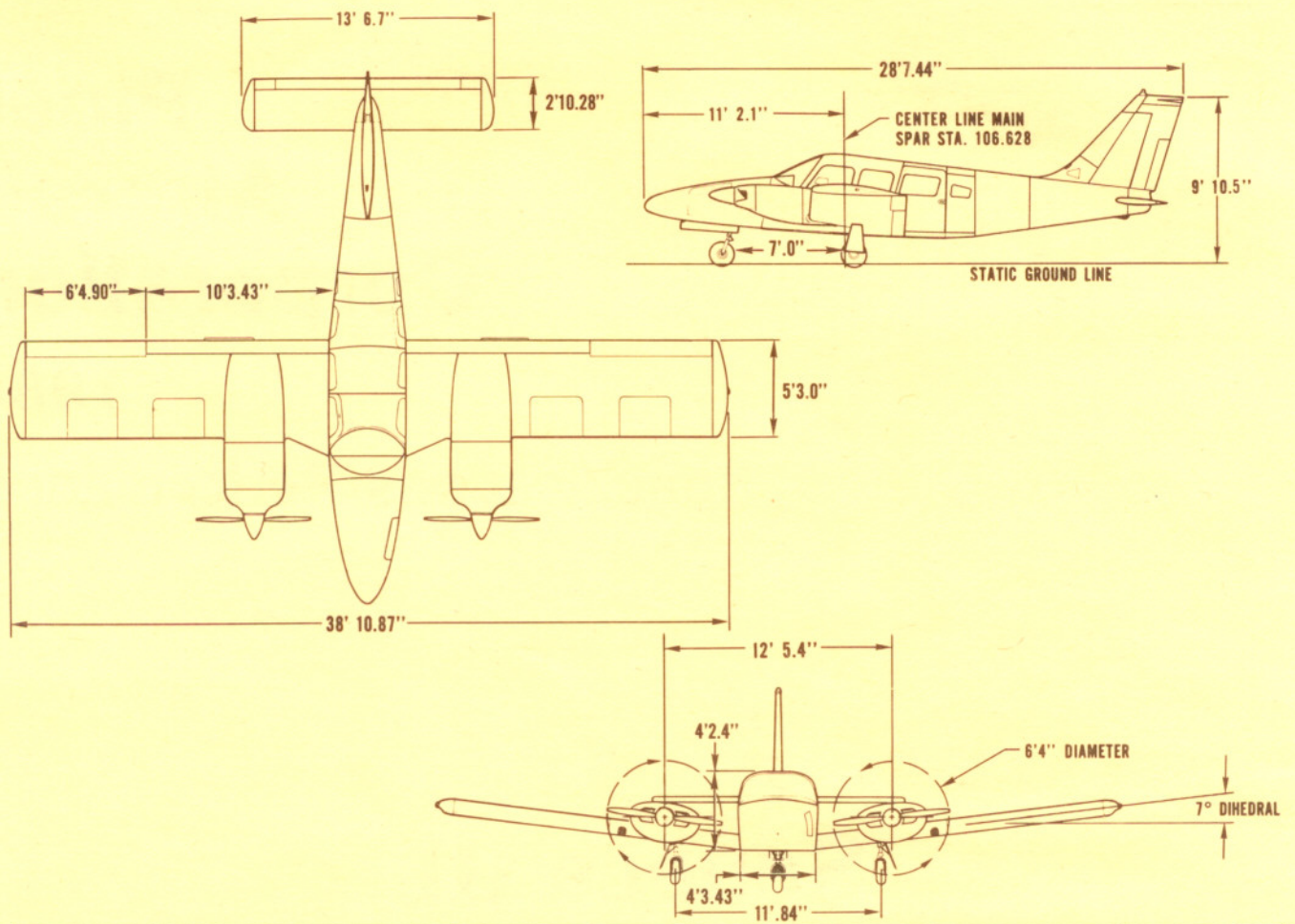
1984

Specifications/Performance

Seneca III

PA-34-220T





Specifications

ENGINES

Manufacturer	Continental
Model	TSIO-360-KB & LTSIO-360-KB
Ratings (hp @ rpm)	
Take-off Power (5 Min. Limit)	220 @ 2800
Maximum Continuous Power	200 @ 2600
Number of Cylinders	6
Recommended TBO (hrs.)	1800

PROPELLERS

Manufacturer	Hartzell
Number of Blades	2
Type	Constant Speed, Full Feathering
Diameter (in./cm.)	76/193

WEIGHTS

Ramp Weight (lbs./kg)	4773/2165
Gross Take-off Weight (lbs./kg)	4750/2154
Gross Landing Weight (lbs./kg)	4513/2047
Standard Empty Weight (lbs./kg)	2852/1294
(Includes: unusable fuel, full oil and full operating fluids)	
Standard Useful Load (lbs./kg)	1921/871

WING AREA AND LOADINGS

Wing Area (ft. ² /m ²)	208.7/19.4
Wing Loading (lbs./ft. ²)/(kg/m ²)	22.8/111.0
Power Loading (lbs./hp)/(kg/hp)	10.8/4.9

DIMENSIONS

Wing Span (ft./m)	38.9/11.9
Length (ft./m)	28.6/8.7
Height (ft./m)	9.9/3.0
Cabin Length (Instrument panel to rear bulkhead) (in./cm.)	125.0/317.5
Cabin Width (in./cm.)	49.0/124.5
Cabin Height (in./cm.)	42.0/106.7
Headroom (Seat to Ceiling)	
Front Seats (in./cm.)	38/96.5
Middle Seats (in./cm.)	36.5/90.8
Rear Seats (in./cm.)	34.5/87.6
Forward Baggage Door Size (in./cm)	21/53.3 x 24/61.0
Aft Baggage/Utility Door Size (in./cm)	20.5/52.1 x 26/66.0
Forward Cabin Door Size (in./cm)	35/88.9 x 36/91.4
Aft Cabin Door Size (in./cm)	28.5/72.4 x 28/71.1
Wheel Base (ft./m)	7/2.13
Wheel Tread (ft./m)	11.1/3.39

FUEL CAPACITY

	Standard Fuel	Optional Fuel
Total Capacity (gal./L)	98/371	128/484
Usable Fuel (gal./L)	93/351	123/466

OIL CAPACITY (qts./L)

8/7.57

BAGGAGE

Volume (ft. ³ /m ³)	
Forward Compartment	15.3/43
Aft Compartment	17.3/49
Capacity (lbs./kg)	
Forward Compartment	100/45.4
Aft Compartment	100/45.4

Performance

MAXIMUM SPEED (kts./kmh)

(TAS at Mid-Cruise Weight)	196/363
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CRUISING SPEEDS

(TAS at Mid-Cruise Weight)	10,000 ft.	Opt. Altitude
High Speed Cruise Power (75%) (kts./kmh)	179/332	193/358
Economy Cruise Power (65%) (kts./kmh)	175/324	191/354
Long Range Cruise Power (45%) (kts./kmh)	143/265	168/311

CRUISE RANGE

(Cruising range includes 45 minute reserve at long range cruise power plus allowance for fuel used during taxi, take-off, climb at MCP, cruise and descent)

	Optimum Altitude	
	Standard Fuel	Optional Fuel
High Speed Cruise Power (75%) (nm/km)	462/300	665/1232
Economy Cruise Power (65%) (nm/km)	550/1019	785/1455
Long Range Cruise Power (45%) (nm/km)	670/1242	990/1835

	10,000 foot Altitude	
	Standard Fuel	Optional Fuel
High Speed Cruise Power (75%) (nm/km)	450/834	640/1186
Economy Cruise Power (65%) (nm/km)	535/1020	760/1400
Long Range Cruise Power (45%) (nm/km)	632/1171	900/1168

FUEL CONSUMPTION

High Speed Cruise Power (75%) (gph/lph)	29.0/110
Economy Cruise Power (65%) (gph/lph)	23.3/88
Long Range Cruise Power (45%) (gph/lph)	16.0/61

RATE OF CLIMB

(At Sea Level and Gross Wt.)	Takeoff Power	Continuous Power
Two Engine (fpm/mpm)	1400/427	1300/396
Single Engine (fpm/mpm)	240/73	200/61

STALL SPEED

	IAS	CAS
Flaps Down Full 40° (kts./kmh)	64/119	62/115
Flaps Up (kts./kmh)	67/124	66/122

SERVICE CEILING (MCP POWER)

Two Engines (100 fpm) (ft./m)	*25,000+/7620+
Single Engine (50 fpm) (ft./m)	12,300/3749

TAKE-OFF DISTANCE

(Sea Level, Zero Wind, Standard Temperature, 25° Flaps)	
Ground Run (ft./m)	920/280
Total Distance over 50 ft. Obstacle (ft./m)	1210/369

LANDING DISTANCE

(Sea Level, Zero Wind, Standard Temperature)	Std. Brakes	H.D. Brakes
Ground Roll (ft./m)	1400/427	1218/371
Total Distance over 50 ft. Obstacle (ft./m)	2160/658	1978/603

ACCELERATE-STOP DISTANCE

(Sea Level, Zero Wind, Standard Temperature, 25° Flaps) (ft./m)	Std. Brakes	H.D Brakes
	2400/732	2088/636

* 25,000 feet is the maximum approved altitude for the Seneca III