

Propeller and Propeller Limits
(continued)

Right Engine

1 Hartzell, Hub Model HC-C2YK-2 () LE, Blade Model JC7666A-0;
 1 Hartzell, Hub Model HC-C2YK-2 () LEU, Blade Model JC7666A-0;
 1 Hartzell, Hub Model HC-C2YK-2 () LEF, Blade Model FJC7666A-0;
 1 Hartzell, Hub Model HC-C2YK-2 () LEFU, Blade Model FJC7666A-0;
 1 Hartzell, Hub Model HC-C2YK-2CLG (F), Blade Model (F) JC7666A
 (This model includes the Hartzell damper); or
 1 Hartzell, Hub Model HC-C2YK-2CLGU (F), Blade Model (F) JC7666A
 (This model includes the Hartzell damper).

Note: HC-()2YK-() may be substituted by HC-()2YR-() per Hartzell Service Advisory 61.

Pitch setting: High 79° to 81°, Low 13.5° at 30" station.
 Diameter: Not over 76", not under 74".
 No further reduction permitted.

Spinner: Piper P/N 96388 Spinner Assembly and P/N 96836 Cap Assembly, or
 P/N 78359-0 Spinner Assembly and P/N 96836-2 Cap Assembly (See NOTE 4)

Governor Assembly:

1 Hartzell hydraulic governor, Model F-6-18AL (Right);
 1 Hartzell hydraulic governor, Model F-6-18A (Left).

Avoid continuous operation between 2200 and 2400 r.p.m. unless aircraft is equipped with Hartzell propellers which incorporates Hartzell damper on both left and right engine as noted above.

Airspeed Limits

V _{NE} (Never exceed)	217 m.p.h.	(188 knots)
V _{NO} (Maximum structural cruise)	190 m.p.h.	(165 knots)
V _A (Maneuvering, 4200 lb.)	146 m.p.h.	(127 knots)
V _A (Maneuvering, 4000 lb.)	146 m.p.h.	(127 knots)
V _A (Maneuvering, 2743 lb.)	133 m.p.h.	(115 knots)
V _{FE} (Flaps extended)	125 m.p.h.	(109 knots)
V _{LO} (Landing gear operating)		
Extension	150 m.p.h.	(130 knots)
Retract	125 m.p.h.	(109 knots)
V _{LE} (Landing gear extended)	150 m.p.h.	(130 knots)
V _{MC} (Minimum control speed)	80 m.p.h.	(69 knots)

C.G. Range (Gear Extended)

S/N 34-E4, 34-7250001 through 34-7250214 (See NOTE 3):
 (+86.4) to (+94.6) at 4000 lb.
 (+82.0) to (+94.6) at 3400 lb.
 (+80.7) to (+94.6) at 2780 lb.

S/N 34-7250215 through 34-7450220:
 (+87.9) to (+94.6) at 4200 lb.
 (+82.0) to (+94.6) at 3400 lb.
 (+80.7) to (+94.6) at 2780 lb.

Straight line variation between points given.

Moment change due to gear retracting landing gear (-32 in.-lb.)

Empty Weight C.G. Range

None

Maximum Weight

S/N 34-E4, 34-7250001 through 34-7250214:
 4000 lb.- Takeoff
 4000 lb. - Landing
 See NOTE 3.

<u>Maximum Weight</u>	S/N 34-7250215 through 34-7450220: 4200 lb. - Takeoff 4000 lb. - Landing					
<u>No. of Seats</u>	7 (2 at +85.5, 3 at +118.1, 2 at +155.7)					
<u>Maximum Baggage</u>	200 lb. (100 lb. at +22.5, 100 lb. at +178.7)					
<u>Fuel Capacity</u>	98 gallons (2 wing tanks) at (+93.6) (93 gallons usable) See NOTE 1 for data on system fuel.					
<u>Oil Capacity</u>	8 qts. per engine (6 qts. per engine usable) See NOTE 1 for data on system oil.					
<u>Control Surface Movements</u>	Ailerons	(±2°)	Up	30°	Down	15°
	Stabilator		Up	12.5° (+0, -1°)	Down	7.5° (±1°)
	Rudder	(±1°)	Left	35°	Right	35°
	Stabilator Trim Tab (Stabilator neutral)	(±1°)	Down	10.5°	Up	6.5°
	Wing Flaps	(±2°)	Up	0°	Down	40°
	Rudder Trim Tab (Rudder neutral)	(±1°)	Left	17°	Right	22°
	Nose Wheel Travel	S/N 34-E4, 34-7250001 through 34-7350353: (±1°)	Left	21°	Right	21°
	Nose Wheel Travel	S/N 34-7450001 through 34-7450220: (±1°)	Left	27°	Right	27°
<u>Manufacturer's Serial Number</u>	34-E4, 34-7250001 through 34-7450220 (See NOTE 7).					

II. - Model PA-34-200T (Seneca II), 7 PCLM (Normal Category), Approved July 18, 1974.

Same as Model PA-34-200 series except engine installation, maximum gross weight, and other minor changes.

<u>Engines</u>	1 Teledyne Continental TSIO-360-E or TSIO-360-EB (left engine), 1 Teledyne Continental LTSIO-360-E or LTSIO-360-EB (right engine).					
<u>Fuel</u>	100/130 minimum grade aviation gasoline					
<u>Engine Limits</u>	For all operations, 2575 r.p.m. and 40" Hg. Manifold pressure, 200 hp @ S.L. and 215 hp @ 12,000 ft.					
<u>Propeller and Propeller Limits</u>	<u>Left engine</u> 1 Hartzell, Hub Model BHC-C2YF-2 ()F (See NOTE 10) or BHC-C2YF-2 ()UF; Blade Model FC8459-8R or FC8459B-8R.					
	<u>Right engine</u> 1 Hartzell, Hub Model BHC-C2YF-2 ()L ()F (See NOTE 10) or BHC-C2YF-2 ()L ()UF; Blade Model FJC8459-8R or FJC8459B-8R.					
	Pitch setting at 30" station: Hub Serial Numbers prior to AN3943: High 79.3° ± 2.0°, Low 14.4° ± 0.2° or High 80.0° to 81.5°, Low 14.4° ± 0.2°. Hub Serial Numbers AN3943 and subsequent: High 80.0° to 81.5°, Low 14.4° ± 0.2°.					