

**V-SPEEDS, WEIGHTS, CAPACITIES & DIFFERENCES**  
(Revised 2/21/2023)

<b>AIRCRAFT</b>	<b>119AV</b>	<b>215AF</b>	<b>216AF</b>
Year	1984	1978	1981
Model	PA28-181	172N	172P
Engine Horsepower	180 hp	180 hp	160 hp
Va – Max Wt	113 kts	105 kts	99 kts
Vx – Sea Level	64 kts	62 kts	60 kts
Vy – Sea Level	76 kts	73 kts	76 kts
Cruise Climb	87 kts	75-85 kts	70-85 kts
Land – 0 Flaps	75 kts	65-75 kts	65-75 kts
Land – Full Flaps	66 kts	60-70 kts	60-70 kts
Vs	55 kts	50 kts	44 kts
Vso	49 kts	40 kts	33 kts
Vfe	102 kts	110/85 kts	110/85 kts
Vno	125 kts	127 kts	127 kts
Vne	154 kts	158 kts	158 kts
Maximum Glide	76 kts	65 kts	65 kts
Max T/O Weight	2550 lbs	2550 lbs	2400 lbs
Empty Wt*	1574 lbs	1548 lbs	1521 lbs
(*Note: Full oil is included in all aircraft empty weights.)			
Oil Capacities: Max	8 qts	8 qts	7 qts
Min	6 qts	6 qts	5 qts
Usable Fuel	48 gal	40 gal	40 gal
Rudder Trim	Yes	Yes	No
Avionics Cooling	Fan	Air Scoop	Fan
POH Required	Yes	Yes	Yes
STC	Yes (G5 PFD)	Yes (180HP)	Yes (G5 PFD)
Red Electrical Malfunction Light Indicates	Under Voltage - Alternator Faulty or Shut Down	Over Voltage - Alternator Faulty or Shut Down	Under Voltage - Alternator Faulty or Shut Down