Data Sheet-Cessna 172N

Weights

Aircraft Number	Empty Weight	Empty Moment	Useful Load
N5724J	1455.44 lbs.	56848.52 lbs.	844.56 lbs.

Maximum Weights	Normal	Utility
Ramp Weight	2307 lbs.	2007 lbs.
Takeoff Weight	2300 lbs.	2000 lbs.
Landing Weight	2300 lbs.	2000 lbs.
Baggage Weight	120 lbs.	0 lbs.
Area 1	120 lbs.	0 lbs.
Area 2	50 lbs.	0 lbs.

Powerplant

Engine: Lycoming O-320-H2AD 160HP @ 2700RPM. Four cylinders, direct drive, horizontally opposed, air cooled, carburetor-equipped.

Oil:	Full	6 qt.
	Min. for local flight	6 qt.
	Min. for X-Country	6 qt.
	Grade and Type	Summer - 100W50 wt.
		Winter - 65W30 wt.

Fuel System

Fuel:	Approved Grades	100LL (blue), 100 (green)
	Total Fuel	43.0 gal.
	Total Usable	40.0 gal.

System Description: The airplane is equipped with a standard fuel system consisting of two vented fuel tanks, a fuel tank selector valve, fuel strainer, manual primer, and carburetor. Fuel flows by gravity from one or both tanks to the fuel selector, through a fuel strainer to the carburetor. From the carburetor, the fuel/air mixture flows to the cylinders. The fuel selector should be in the BOTH position for takeoff, climb, descent, landing, and maneuvers that involve prolonged slips or skids. Operation from either the LEFT or RIGHT position is reserved for level cruising flight only.

Landing Gear and Brakes

System Description: Landing gear is fixed in the tricycle configuration with a steerable nosewheel. Nosewheel is steerable through a 10 degree arc each side of center. Differential braking increases the

turning arc to 30 degrees each side of center. Nose strut is an air-oil type shock. Each main gear is equipped with a hydraulically activated single disk brake on the inboard side of each wheel.

Tire Inflation: Mains 31 psi
Nose 29 psi

Electrical System

Alternator - 28 volt, 60 ampere
Battery - 24 volt

System Description: Power is supplied to most general electrical items through the primary bus. All avionics are powered by the avionics bus. The two busses are tied together through the avionics power switch, which also functions as a circuit breaker for the avionics bus. The avionics power switch should be turned off prior to starting the engine to prevent harmful transient voltages from damaging the avionics equipment. The ammeter shows a charge or discharge on the battery and should remain at or near the zero indication after a brief charging period.

Pitot-Static System

System Description: The system is standard with a heated pitot head under the left wing and a static port on the left nose cowling. The alternate static source is located on the panel below the throttle and supplies static pressure from inside the cockpit.

Speeds

Best glide speed	Vg	65 KIAS
Stall in landing configuration	Vso	41 KIAS
Stall in cruise configuration	Vs1	47 KIAS
Rotate speed	Vr	55 KIAS
Best angle of climb	Vx	59 KIAS
Best rate of climb	Vy	73 KIAS
Maneuvering speed	Va	
1600 lbs.		80 KIAS
2300 lbs.		97 KIAS
Flap extended	Vfe	
0-10°		110 KIAS
10-30°		85 KIAS
Max. structural cruising speed	Vno	128 KIAS
Enroute climb speed		70-80 KIAS
Approach speed	Vapp	55-65 KIAS
Never exceed speed	Vne	160 KIAS
Obstacle clearance speed		61 KIAS
Demonstrated crosswind component		15 KIAS