

Model Comparison Reference Sheet

C-172N - 180 HP N1293F / C172M - 160 HP N4464R & N13686

Reference Material - C172M & N Original POH, STC's, Air Plains 180 HP Performance Data.

Data as of 12/6/2017, Jim Hudson CFI

	64R/686	93F
Airframe Model	C172M	C172N
Year Manufactured	1974	1979
Engine Model-Lycoming	0320-E2D	0360-A4N
Maximum HP per STC	160	180
Max RPM	2700	2700
Maximum Continuous RPM per STC	2500	2700
Fuel Burn @ 76% bhp - 2700 rpm Std. Temp.	8.4 gph	10.1 gph
Fuel Burn @ 2500 @ 8,000' Std. Temp.	7.6 gph	8.4 gph
Total Fuel Capacity	42 gal.	43 gal.
Useable Fuel	38 gal.	40 gal.
Maximum Gross Weight	2300	2550
Empty Weight	1423 / 1426	1517
Useful Load	877 / 874	1,033
Payload with Full Fuel (see W&B data for changes)	649 / 646	793
Range - @ 76% bhp - 2700 rpm - No Reserves	4.5 hr.	3.9 hr.
Range - @ 2500 rpm @ 8,000'- No Reserves	5.0 hr.	4.75 hr.
Service Ceiling	14,200'	14,200'
Electrical System Volts / Amps	12v / 60A	24v / 60 A
Air Speed Units	MPH / Knots	Knots
	<i>/(Reference)</i>	
TAS at @ 76% bhp - 2700 rpm	138 / 120	122
TAS @ 2500 RPM@ 8,000'	132 / 115	111
Maximum Flap Extension	40⁰	30⁰
Vfe₁₀ - IAS at 10⁰ Flaps	100 / 87	110
Vfe > 10⁰	100 / 87	85
Best Glide Speed	80 / 70	70
Short Field Approach Speed	65 / 57	60
Vx	68 / 60	62
Vy	91 / 79	73