

THE

cherokee *SIX 300*

PILOT'S OPERATING MANUAL



REFERENCE ONLY

THIS ELECTRONIC VERSION
OF THE POM/AFM IS
NOT APPROVED TO
REPLACE ANY OPERATING
INFORMATION REQUIRED
BY THE REGULATIONS.

BY



This manual is incomplete without an APPROPRIATE FAA APPROVED AIRPLANE
FLIGHT MANUAL and an APPROPRIATE WEIGHT AND BALANCE REPORT.

GENERAL SPECIFICATIONS

PERFORMANCE

Published figures are for standard airplanes flown at gross weight under standard conditions at sea level unless otherwise stated. Performance for a specific airplane may vary from published figures depending upon the equipment installed, the conditions of engines, airplane and equipment, atmospheric conditions and piloting technique. Each performance figure below is subject to the same conditions as on the corresponding performance chart from which it is taken in the Performance Charts Section.

GROSS WEIGHTS	3400	2900
Takeoff Ground Run, 10° flaps, sea level (ft)	1050	750
Takeoff Distance Over 50-ft Obstacle, 10° flaps, sea level (ft)	1500	1200
Best Rate of Climb Speed (mph)	105	100
Rate of Climb (ft per min)	1050	1350
Best Angle of Climb Speed (mph)	95	--
Max Speed, sea level (mph)	174*	175*
Max Speed Optimum Altitude, 8,300 ft, 75% power (TAS) (mph)	168*	171*
Service Ceiling (ft)	16,250	20,000
Absolute Ceiling (ft)	18,000	21,500
Cruise Speed at Best Power Mixture (mph)		
65% power, 11,500 ft	163	167
55% power, 15,000 ft	155	163
Range at Best Power Mixture (mi)**		
75% power, 8,000 ft	780	779
65% power, 11,500 ft	845	850
55% power, 15,000 ft	905	935
Cruise Speed at Best Economy Mixture (mph)		
75% power, 8,000 ft	166	169
65% power, 11,400 ft	159	165
55% power, 15,000 ft	149	157
Range at Best Economy Mixture (mi)**		
75% power, 8,000 ft	850	865
65% power, 11,400 ft	945	980
55% power, 15,000 ft	1030	1080
Stalling Speed, flaps down, (CAS) (mph)	63	58
Stalling Speed, flaps up, (CAS) (mph)	71	66
Landing Roll, flaps down, sea level (ft)	630	540
Landing Distance Over 50-ft Obstacle, sea level (ft)	1000	850

*The speed stated is with optional wheel fairings installed. Subtract 3 mph if wheel fairings are not installed.

**No reserve.

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GROSS WEIGHTS		3400	2900
WEIGHTS			
Standard Empty Weight (lbs)		1824	1824
Maximum Useful Load (lbs)		1576	1076
POWER PLANT			
Engine - Lycoming	(Serial nos. 7440001 through 7640065 and 7640067 through 7640071) IO-540-K1A5 (Serial nos. 7640066, 7640072 and up) IO-540-K1G5		
Rated Horsepower			300
Rated Speed (rpm)			2700
Bore (inches)			5.125
Stroke (inches)			4.375
Displacement (cubic inches)			541.5
Compression Ratio			8.7:1
Dry Weight (pounds)			457
Propeller (Standard)	HC-C2YK-1()/8475-4 or HC-C2YK-1()/8475D-4 or HC-C2YK-1()F/F8475D-4		
(Optional)*	HC-C2YK-1()/8475R-0 or HC-C2YK-1()F/F8475R-0		
Propeller Diameter (inches) (Standard)			80
(Optional)			84
FUEL AND OIL			
Fuel Capacity (inboard) (U.S. gal)			50
With Standard Auxiliary (U.S. gal)			84
Oil Capacity (U.S. qts)			12
Fuel, Aviation Grade (min octane)			100/130
BAGGAGE			
	Forward		Aft
Maximum Baggage (lbs)	100		100
Baggage Space (cubic ft)	8		20
Baggage Door Size (in.)	16 x 22		

*Serial nos. 7440001 thru 7540188 only

DIMENSIONS

Wing Span (ft)	32.8
Wing Area (sq ft)	174.5
Wing Loading (lbs per sq ft)	19.5
Length (ft)	27.7
Height (ft)	8.2
Power Loading (lbs) per hp)	11.3

LANDING GEAR

Wheel Base (ft)	7.8
Wheel Tread (ft)	10.6
Tire Pressure (lbs)	Nose 28-30
	Main 35-40

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