

NOTICE

THIS HANDBOOK IS NOT DESIGNED, NOR CAN ANY HANDBOOK SERVE, AS A SUBSTITUTE FOR ADEQUATE AND COMPETENT FLIGHT INSTRUCTION, OR KNOWLEDGE OF THE CURRENT AIRWORTHINESS DIRECTIVES, THE APPLICABLE FEDERAL AIR REGULATIONS, AND ADVISORY CIRCULARS. IT IS NOT INTENDED TO BE A GUIDE OF BASIC FLIGHT INSTRUCTION, NOR A TRAINING MANUAL.

THE HANDBOOK IS DESIGNED:

1. TO HELP YOU OPERATE YOUR CHEROKEE WITH SAFETY AND CONFIDENCE.
2. TO MORE FULLY ACQUAINT YOU WITH THE BASIC PERFORMANCE AND HANDLING CHARACTERISTICS OF THE AIRPLANE.
3. TO MORE FULLY EXPLAIN YOUR CHEROKEE'S OPERATION THAN IS PERMISSIBLE TO SET FORTH IN THE AIRPLANE FLIGHT MANUAL.

IF THERE IS ANY INCONSISTENCY BETWEEN THIS HANDBOOK AND THE AIRPLANE FLIGHT MANUAL APPROVED BY THE F.A.A., THE FLIGHT MANUAL SHALL GOVERN.

Revised text and illustrations shall be indicated by a black vertical line in the margin opposite the change. A line opposite the page number will indicate that material was relocated.

Additional copies of this manual, Part No. 753 600, may be obtained from your Piper Dealer.

Published by
PUBLICATIONS DEPARTMENT
Piper Aircraft Corporation
753 600

Revised: May 10, 1977

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SPECIFICATION FEATURES

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SPECIFICATION FEATURES:

<u>POWER PLANT</u>	<u>PA-28-150</u>	<u>PA-28-160</u>	<u>PA-28-180</u>
Engine - Lycoming	*O-320-A2B	*O-320-B2B	O-360-A2A
Engine - Lycoming	**O-320-E2A	**O-320-D2A	
Rated Horsepower	150	160	180
Rated Speed RPM	2700	2700	2700
Bore, inches	5.125	5.125	5.125
Stroke, inches	3.875	3.875	4.375
Displacement (cubic inches)	319.8	319.8	361.0
Compression Ratio	7:1	8.5:1	8.5:1
Dry Weight, pounds	272	278	285
Fuel Consumption (75% power, gph)	9	9	10
Oil Sump Capacity (qts)	8	8	8
Fuel Aviation Grade (Minimum Octane)	80/87	91/96	91/96
(Specified Octane)	80/87	91/96	91/96
(Alternate Fuels)	See Fuel Requirements, page 30		
Propeller (Sensenich)	M74DM58	M74DM60	M76EMM60

PERFORMANCE

Take-off Run, ft.	800	775	775
Best Rate of Climb Speed (MPH)	85	85	85
Rate of Climb (ft. per min.)	660	700	720
Service Ceiling (ft.)	14,300	15,000	15,700
Absolute Ceiling	16,800	17,500	18,300
Top Speed (MPH)	139 (142***)	141 (144***)	150
Cruising Speed (75% power, sea level MPH)	121 (124***)	123 (126***)	132

*This engine used in Cherokee with Serial Nos. 28-1 to 28-510

**This engine used in Cherokee with Serial Nos. 28-511 and up

***Wheel fenders optional equipment on PA-28-150 and -160

SPECIFICATION FEATURES: (cont)

<u>PERFORMANCE</u>	<u>PA-28-150</u>	<u>PA-28-160</u>	<u>PA-28-180</u>
Optimum Cruising Speed (75% power, 7000 ft., MPH)	130 (133***)	132 (135***)	141
Fuel Consumption (gal. per hr. 75%)	9	9	10
Cruising Range (75% power, sea level, std. fuel)	4 hrs. 490 mi.	4 hrs. 500 mi.	5 hrs. 660 mi.
Optimum Cruising Range (55% power, 10,000 ft. std. fuel)	5 hrs. 570 mi.	5 hrs. 580 mi.	7 hrs. 750 mi.
Cruising Range (75% power, sea level, reserve fuel)	5.5 hrs. 680 mi.	5.5 hrs. 695 mi.	
Optimum Cruising Range (55% power, 10,000 ft. reserve fuel 7.2 gph)	7 hrs. 790 mi.	7 hrs. 805 mi.	
Stalling Speed (flaps down, MPH)	54	55	57
Landing Roll (flaps down, ft.)	535	550	600

Performance figures are for standard airplanes flown at gross weight under standard conditions at sea level, or stated altitude. Any deviation from Standard equipment may result in changes in performance.

<u>WEIGHTS</u>	<u>PA-28-150</u>	<u>PA-28-160</u>	<u>PA-28-180</u>
Gross Weight (lbs)	2150	2200	2400
Empty Weight (Standard) (lbs)	1205	1210	1225

***Wheel fenders optional equipment on PA-28-150 and -160

SPECIFICATION FEATURES: (cont.)

<u>WEIGHTS</u>	<u>PA-28-150</u>	<u>PA-28-160</u>	<u>PA-28-180</u>
<u>USEFUL LOAD</u>			
(Standard) (lbs)	945	990	1175
Empty Weight			
(AutoFlight) (lbs)	1245	1250	1265
<u>USEFUL LOAD</u>			
(AutoFlight) (lbs)	905	950	1135
<u>FUEL AND OIL</u>			
<u>Fuel Capacity</u>			
(Standard) (gal)	36	36	50
Fuel Capacity (with			
reserve) (gal)	50	50	
Oil Capacity (qts)	8	8	8
<u>BAGGAGE</u>			
Maximum Baggage (lbs)	100(125*)	100(125*)	125
Baggage Space (cubic ft)	19	19	19
Baggage Door Size (in)	20 x 22	20 x 22	20 x 22
<u>DIMENSIONS</u>			
Wing Span (ft)	30	30	30
Wing Area (sq ft)	160	160	160
Wing Loading (lbs per			
sq. ft)	13.4	13.8	15.0
Length (ft)	23.3	23.3	23.3
Height	7.3	7.3	7.3
Power Loading (lbs			
per HP)	14.3	13.8	13.3
<u>LANDING GEAR</u>			
Wheel Base (ft)	6.2	6.2	6.2
Wheel Tread (ft)	10	10	10
Tire Pressure (lbs)			
Nose	24	24	24
Main	24	24	24

*PA-28 - Serial Nos. 28-725 and up

SECTION I

THE PIPER CHEROKEE

