

## PERFORMANCE - SPECIFICATIONS

**SPEED:**

Maximum at Sea Level . . . . .	125 KNOTS
Cruise, 75% Power at 8000 Ft . . . . .	122 KNOTS

**CRUISE:** Recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45 minutes reserve at 45% power.

75% Power at 8000 Ft . . . . .	Range	485 NM
40 Gallons Usable Fuel . . . . .	Time	4.1 HRS
75% Power at 8000 Ft . . . . .	Range	630 NM
50 Gallons Usable Fuel . . . . .	Time	5.3 HRS
Maximum Range at 10,000 Ft . . . . .	Range	575 NM
40 Gallons Usable Fuel . . . . .	Time	5.7 HRS
Maximum Range at 10,000 Ft . . . . .	Range	750 NM
50 Gallons Usable Fuel . . . . .	Time	7.4 HRS

<b>RATE OF CLIMB AT SEA LEVEL . . . . .</b>	770 FPM
<b>SERVICE CEILING . . . . .</b>	14,200 FT

**TAKEOFF PERFORMANCE:**

Ground Roll . . . . .	805 FT
Total Distance Over 50-Ft Obstacle . . . . .	1440 FT

**LANDING PERFORMANCE:**

Ground Roll . . . . .	520 FT
Total Distance Over 50-Ft Obstacle . . . . .	1250 FT

**STALL SPEED (CAS):**

Flaps Up, Power Off . . . . .	50 KNOTS
Flaps Down, Power Off . . . . .	44 KNOTS

<b>MAXIMUM WEIGHT . . . . .</b>	2300 LBS
---------------------------------	----------

**STANDARD EMPTY WEIGHT:**

Skyhawk . . . . .	1393 LBS
Skyhawk II . . . . .	1419 LBS

**MAXIMUM USEFUL LOAD:**

Skyhawk . . . . .	907 LBS
Skyhawk II . . . . .	881 LBS

<b>BAGGAGE ALLOWANCE . . . . .</b>	120 LBS
------------------------------------	---------

<b>WING LOADING: Pounds/Sq Ft . . . . .</b>	13.2
---	------

<b>POWER LOADING: Pounds/HP . . . . .</b>	14.4
---	------

**FUEL CAPACITY: Total**

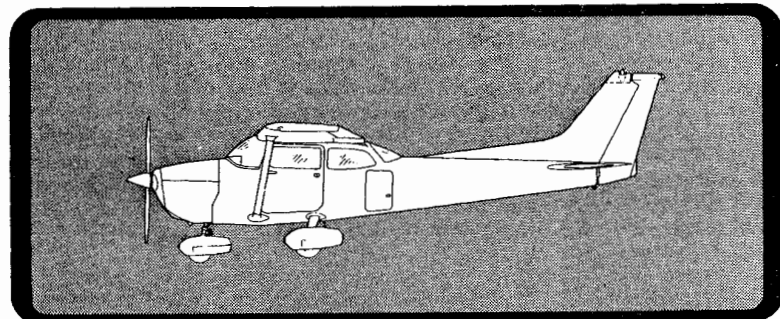
Standard Tanks . . . . .	43 GAL.
Long Range Tanks . . . . .	54 GAL.

<b>OIL CAPACITY . . . . .</b>	6 QTS
-------------------------------	-------

<b>ENGINE: Avco Lycoming . . . . .</b>	O-320-H2AD
160 BHP at 2700 RPM	

<b>PROPELLER: Fixed Pitch, Diameter . . . . .</b>	75 IN.
---	--------

## PILOT'S OPERATING HANDBOOK



# SKYHAWK

1978 MODEL 172N

Serial No. \_\_\_\_\_

Registration No. \_\_\_\_\_

THIS HANDBOOK INCLUDES THE MATERIAL REQUIRED TO BE FURNISHED TO THE PILOT BY CAR PART 3

COPYRIGHT © 1977

CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS, USA

## AIRSPEEDS FOR EMERGENCY OPERATION

Engine Failure After Takeoff:	
Wing Flaps Up . . . . .	65 KIAS
Wing Flaps Down . . . . .	60 KIAS
Maneuvering Speed:	
2300 Lbs . . . . .	97 KIAS
1950 Lbs . . . . .	89 KIAS
1600 Lbs . . . . .	80 KIAS
Maximum Glide:	
2300 Lbs . . . . .	65 KIAS
Precautionary Landing With Engine Power . . . . .	60 KIAS
Landing Without Engine Power:	
Wing Flaps Up . . . . .	65 KIAS
Wing Flaps Down . . . . .	60 KIAS

## SPEEDS FOR NORMAL OPERATION

Unless otherwise noted, the following speeds are based on a maximum weight of 2300 pounds and may be used for any lesser weight. However, to achieve the performance specified in Section 5 for takeoff distance, the speed appropriate to the particular weight must be used.

Takeoff, Flaps Up:	
Normal Climb Out . . . . .	70-80 KIAS
Short Field Takeoff, Flaps Up, Speed at 50 Feet . . . . .	59 KIAS
Enroute Climb, Flaps Up:	
Normal, Sea Level . . . . .	75-85 KIAS
Normal, 10,000 Feet . . . . .	70-80 KIAS
Best Rate of Climb, Sea Level . . . . .	73 KIAS
Best Rate of Climb, 10,000 Feet . . . . .	68 KIAS
Best Angle of Climb, Sea Level . . . . .	59 KIAS
Best Angle of Climb, 10,000 Feet . . . . .	61 KIAS
Landing Approach:	
Normal Approach, Flaps Up . . . . .	60-70 KIAS
Normal Approach, Flaps 40° . . . . .	55-65 KIAS
Short Field Approach, Flaps 40° . . . . .	60 KIAS
Balked Landing:	
Maximum Power, Flaps 20° . . . . .	55 KIAS
Maximum Recommended Turbulent Air Penetration Speed:	
2300 Lbs . . . . .	97 KIAS
1950 Lbs . . . . .	89 KIAS
1600 Lbs . . . . .	80 KIAS
Maximum Demonstrated Crosswind Velocity:	
Takeoff or Landing . . . . .	15 KNOTS