



MORE PEOPLE BUY AND
FLY CESSNA AIRPLANES
THAN ANY OTHER MAKE

1971

WORLD'S LARGEST PRO-
DUCER OF GENERAL
AVIATION AIRCRAFT
SINCE 1956

MODEL 172 AND SKYHAWK



OWNERS' MANUAL

PERFORMANCE - SPECIFICATIONS

	Model 172*	Skyhawk*
GROSS WEIGHT	2300 lbs	2300 lbs
SPEED:		
Top Speed at Sea Level	139 mph	140 mph
Cruise, 75% Power at 9000 ft	131 mph	132 mph
RANGE:		
Cruise, 75% Power at 9000 ft	615 mi	620 mi
38 Gal., No Reserve	4.7 hrs	4.7 hrs
	131 mph	132 mph
Cruise, 75% Power at 9000 ft	775 mi	780 mi
48 Gal., No Reserve	5.9 hrs	5.9 hrs
	131 mph	132 mph
Optimum Range at 10,000 ft	640 mi	655 mi
38 Gal., No Reserve	5.5 hrs	5.5 hrs
	117 mph	118 mph
Optimum Range at 10,000 ft	820 mi	830 mi
48 Gal., No Reserve	7.0 hrs	7.0 hrs
	117 mph	118 mph
RATE OF CLIMB AT SEA LEVEL	645 fpm	645 fpm
SERVICE CEILING	13,100 ft	13,100 ft
TAKE-OFF:		
Ground Run	865 ft	865 ft
Total Distance Over 50-Foot Obstacle. . .	1525 ft	1525 ft
LANDING:		
Ground Roll	520 ft	520 ft
Total Distance Over 50-Foot Obstacle. . .	1250 ft	1250 ft
STALL SPEED:		
Flaps Up, Power Off	57 mph	57 mph
Flaps Down, Power Off	49 mph	49 mph
EMPTY WEIGHT (Approximate)	1250 lbs	1300 lbs
USEFUL LOAD	1050 lbs	1000 lbs
BAGGAGE	120 lbs	120 lbs
WING LOADING: Pounds/Sq Foot	13.2	13.2
POWER LOADING: Pounds/HP	15.3	15.3
FUEL CAPACITY: Total		
Standard Tanks	42 gal.	42 gal.
Optional Long Range Tanks	52 gal.	52 gal.
OIL CAPACITY: Total	8 qts	8 qts
PROPELLER: Fixed Pitch (Diameter)	76 inches	76 inches
ENGINE:		
Lycoming Engine	O-320-E2D	O-320-E2D
150 rated HP at 2700 RPM		

*This manual covers operation of the Model 172/Skyhawk which is certificated as Model 172L under FAA Type Certificate No. 3A12.

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. -ins. /1000)	Weight (lbs.)	Moment (lb. -ins. /1000)
1. Licensed Empty Weight (Sample Airplane) . . .	1364	51.7		
2. Oil (8 qts. - Full oil may be assumed for all flights)	15	-0.2	15	-0.2
3. Fuel (Standard - 38 Gal at 6#/Gal)	228	10.9		
Fuel (Long Range - 48 Gal at 6#/Gal)				
4. Pilot and Front Passenger (Station 34 to 46) . . .	340	12.6		
5. Rear Passengers	340	24.8		
6. Baggage (or Passenger on Child's Seat) (Station 82 to 108)	13	1.2		
7. TOTAL WEIGHT AND MOMENT	2300	101.0		
8. Locate this point (2300 at 101.0) on the center of gravity moment envelope, and since this point falls within the envelope, the loading is acceptable.				

AIRSPEED CORRECTION TABLE												
	IAS	40	50	60	70	80	90	100	110	120	130	140
FLAPS UP	CAS	55	58	65	72	82	91	101	110	120	129	139
FLAPS DOWN	CAS	48	54	63	72	82	93	105	•	•	•	•

Figure 6-1.

STALL SPEEDS, POWER OFF					
		ANGLE OF BANK			
	CONDITION	0°	20°	40°	60°
2300 LBS. GROSS WEIGHT	FLAPS UP	57	59	65	81
	FLAPS 10°	52	54	59	74
	FLAPS 40°	49	51	56	69
SPEEDS ARE MPH, CAS					

Figure 6-2.