

LANDPLANE
AIRPLANE FLIGHT MANUAL

THIS DOCUMENT MUST BE KEPT IN AIRPLANE AT ALL TIMES
CAA IDENT. NO. N1182H
AERONCA MODEL 15AC

AERONCA AIRCRAFT CORPORATION
MIDDLETON, OHIO

LIMITATIONS

ENGINE: Max. RPM 2700 (145 h. p.)
Min. Idle RPM Limit - 550
Max Idle RPM Limit - 650
Min. fuel octane rating - 30

ENGINE MARKINGS:

Oil temp. - operate in green arc (100° to 225° F)
Oil pressure - operate in green arc (30 to 40 psi)

Tachometer - do not exceed red line (2700 RPM)

AIRSPEED (MPH)

Never exceed	NORMAL
Max. Structural Cruise	139 True Indicated Airspeed
Maneuvering	110 True Indicated Airspeed
	91 True Indicated Airspeed

MAX. WEIGHT: 2050

FLIGHT LOAD FACTORS:
Max. Positive +3.8

Max. Negative (No inverted maneuvers approved)

NOTE: Maneuvers involving approach to stalling angle or full or rapid application of elevator, rudder or aileron, should be confined to speeds below maneuvering speed.

C.G. RANGE (Datum: Wing L.E.)

Normal Category: Front Limit (+12.1 in.)
(18.4% MAC) @ 1606#
Str. Line to (+14.5 in.) (22.1% MAC) @ 2050#
Rear Limit (24.3 in) (37.2% MAC) @ 2050#

NOTE: It is the responsibility of the airplane owner and pilot to insure proper loading of the airplane.

ACROBATICS:

No acrobatic maneuvers including spins approved.

AIRSPEED INSTRUMENT MARKINGS:

- (a) Radial RED line (never exceed speed)
- (b) YELLOW arc - operate with caution and only in smooth air. (Max. Struct. Cr. to never exceed.)
- (c) GREEN arc - normal operating range (Stall to Max. Struct. Cruise)

PROCEDURES

- (a) Mixture Control Operations - Use full rich mixture for all landing and take-off operations.
- (b) Priming - Advance throttle three times to prime engine.

AIRPLANE PERFORMANCE

The performance figures were obtained during CAA Type Tests and may be realized under conditions indicated with the airplane and engine in good condition and with average pilot technique. The figures are those for operation in no-wind condition from paved runways at a gross weight of 2050 lbs., with a fixed pitch wood propeller (Dia.: 76 in. max., 71 in. min.; static rpm: 2490 max., 2290 min.). Allowance must be made in operating under different conditions. Take-off and climb performance will remain the same or be improved with a fixed pitch metal propeller (McCauley 1A170; Dia. 76 in max., 74 in. min.; static rpm 2490 max., 2240 min.)

ITEM	ALT. (ft.)	OUTSIDE AIR TEMP. - °F					
		0	20	40	60	80	100
TAKE-OFF DIST. (ft.)	S.L.	1155	1268	1383	1509	1617	1791
		2000	1389	1511	1636	1758	1909
		4000	1669	1798	1969	2150	2302
		6000	2096	2349	2573	2862	3134
LANDING DIST. (ft.)	S.L.	1663	1715	1769	1826	1879	1940
		2000	1755	1815	1871	1935	2000
		4000	1860	1929	1990	2022	2122
		6000	1978	2050	2121	2195	2265
NORMAL RATE OF CLIMB (ft./min.) @ 70 mph	S.L.	626	605	588	570	552	537
		2000	545	527	509	491	474
		4000	468	450	431	413	397
		6000	392	372	355	337	321

Stalling Speeds (mph) (Power off)	Angle of Bank	0°	20°	40°	50°	60°
		Stall Speed	57	58.7	65	71.3

Weight and Balance: Refer to Weight Statement furnished with each airplane.