



**FAA APPROVED
SUPPLEMENTAL AIRPLANE FLIGHT MANUAL**

Document Number 172053

For

**Cessna 172 I, K & L
Serial No. 17256513 thru 17260758**

Serial No: _____ **Reg. #:** _____

This supplement must be attached to the Owner's Handbook when **STC SA2196CE** (which increases the gross weight to **2500 lbs**) and **STC SA4428SW**, (which installs an O-360 Lycoming 180 HP engine), are installed.

The information contained herein supplements the information of the basic Owner's Handbook. For limitations, procedures, and performance information not contained in this supplement, consult the basic Owner's Handbook.

for FAA Approve 
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SECTION 3: EMERGENCY PROCEDURES

AIRSPEEDS FOR EMERGENCY OPERATION

Engine Failure After Takeoff:

Wing Flaps Up77 – 86 MPH IAS

Wing Flaps Down.....70 – 81 MPH IAS

Maneuvering Speed:

2500 lbs122 MPH IAS

2150 lbs109 MPH IAS

1750 lbs98 MPH IAS

Maximum Glide:

2500 LBS86 MPH IAS

Precautionary Landing With Engine Power76 MPH IAS

Landing Without Engine Power:

Wing Flaps Up77-86 MPH IAS

Wing Flaps Down.....70-81 MPH IAS

DITCHING

If no power is available, approach at 76 MPH IAS with flaps at 30 °.

INADVERTENT ICE ENCOUNTER

Approach at 81 to 92 MPH IAS, depending on ice accumulation.



SECTION 4: NORMAL PROCEDURES

NORMAL PROCEDURES

SPEEDS FOR NORMAL OPERATION

Unless otherwise noted, the following speeds are based on a maximum weight of 2500 pounds and may be used for any lesser weight.

Takeoff:

Normal Climb Out	86-97 MPH IAS
Short Field Takeoff, Flaps 10 °, Speed at 50 ft	70 MPH IAS

Enroute Climb, Flaps Up:

Normal, Sea Level	86-97 MPH IAS
Normal, 10,000 Feet	79-90 MPH IAS
Best Rate of Climb, Sea Level	89 MPH IAS
Best Rate of Climb, 10,000 Feet	85 MPH IAS
Best Angle of Climb, Sea Level	73 MPH IAS

Landing Approach:

Normal Approach, Flaps Up	77-86 MPH IAS
Normal Approach, Flaps 30 °	70-81 MPH IAS
Short Field Approach, Flaps 30 °	69 MPH IAS

Balked Landing:

Maximum Power, Flaps 20 °	70 MPH IAS
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Maximum Recommended Turbulent Air Penetration Speed:

2500 lbs	122 MPH IAS
2150 lbs	109 MPH IAS
1750 lbs	98 MPH IAS



STALLING SPEED

STALLING SPEED (MPH - CAS)						
MODEL	GROSS WEIGHT LBS	FLAPS	ANGLE OF BANK			
			0° BANK	20° BANK	40° BANK	60° BANK
180HP 172 I,K,L	2500	FLAPS UP	59	62	68	84
		FLAPS 10	54	56	62	77
		FLAPS 30	51	53	58	72

SECTION 7: AIRPLANE & SYSTEMS DESCRIPTIONS

ENGINE:

Refer to Textron Lycoming Operators Manual #60297-12 for a description of the engine and related components.

PROPELLER:

Fixed pitch propeller 76" in diameter.

TIRES:

To operate at the 2500 gross weight, the aircraft must be equipped with 6 or more ply tires on both the main wheels and nose wheel on all models.

- Tire Pressure should be:
 - ◆ Nose Gear45psi
 - ◆ Main Gear38psi