

**PILOT'S OPERATING HANDBOOK
AND
AIRPLANE FLIGHT MANUAL
FOR**

Manufacturer's Serial No: ES-014

Registration No: N410KG



This aircraft is FAA approved in the EXPERIMENTAL category. This POH must be carried in the aircraft.

Maneuver Entry Speeds

Chandelles: 150 KIAS

Lazy Eights: 150 KIAS

Steep Turns: 150 KIAS

Stalls: Slow Deceleration*

* Ensure that maximum fuel imbalance does not exceed 10 gallons.

SPINS: PROHIBITED

Aircraft Operating Speeds		
SPEED	MARKING	KCAS
Never exceed speed	V _{NE} Red Line	220
Caution, smooth air only	Yellow Arc	174- 200
Maneuvering Speed	V _A	143 @ 3000#
		117 @ 2000#
Normal Operating range	V _{NO} Green Arc	74 - 174
Flap Operating range,	0-10 Deg	140
Flap Operating range,	V _{FE} White Arc	61-122
Best Angle of climb speed	V _X	85
Best Rate of climb speed	V _Y	105
Stall Speed clean	V _S	74
Stall Speed landing config.	V _{SO}	60
Max. demonstrated x-wind component		15

DESCENT

1. Power – AS DESIRED
2. Low Boost – OFF
3. Mixture – ENRICH as required
4. Alternate Air - ON
4. Speed Brakes – AS DESIRED
5. Wing Flaps – AS DESIRED
 - 0 – 10 degrees under 122 KIAS
 - 10 – 40 degrees under 122 KIAS
6. ATIS/AWOS/ASOS – GET

BEFORE LANDING

1. Seats, Belts, Shoulder Harnesses – ADJUST and LOCK
2. Fuel Selector Valve – FULLEST TANK
3. Mixture – RICH
4. Propeller – FULL INCREASE
5. Low Boost Fuel Pump – ON
6. Landing Light – AS REQUIRED
7. Airspeed 85 – 90 KIAS (Flaps UP)
8. Wing Flaps – 0-40 degrees (below 122 KIAS)
9. Airspeed – 80-85 KIAS (Flaps DOWN)
10. Elevator, Aileron, Rudder Trim – ADJUST
11. Speed Brakes – RETRACTED

Think G_U_M_P_S

G = Gas, Fullest Tank

U = Undercarriage (usually Gear/Brake Check)

M = Mixture - RICH

P = Prop - HIGH RPM

S = Seat Belts/Harness

WARNING

IF TIRE SKIDDING OCCURS, IMMEDIATELY REDUCE BRAKE PEDAL PRESSURE. IF TIRE SKIDDING IS ALLOWED TO CONTINUE, A SEVERE OSCILLATORY YAWING MOTION, 'WHEEL WALKING,' COULD DEVELOP. IF THIS SEVERE OSCILLATORY YAWING MOTION OCCURS, AN AFT FUSELAGE INSPECTION MUST BE

STALL SPEEDS

Conditions:

- **Date.....07 October 2015**
- **Weight2900 LBS**
- **CGFWD**
- **Power..... Idle**
- **Bank Angle.....Noted**
- **Dirty = Flaps full down**

• Note •

Altitude loss during wings level stall may be 250 feet or more.
KIAS values may not be accurate at stall.

Power On		Angle of Bank	KIAS
	Flaps Up	0°	70
	Flaps Down	0°	59
Power Off			
	Flaps Up	0°	74
	Flaps Down	0°	60