

Cockpit positions	LF - Left Fore	CL - Center Left	RF - Right Fore
	LM - Left Middle	C - Center	RM - Right Middle
	LA - Left Aft	CR - Center Right	RA - Right Aft

BEFORE START

- Main Air Valve (LA)OPEN
- Circuit Breakers 1/2/4/6 (LM).....ON
- Propeller RPM Control leverFULL FWD
- Fuel Cock lever (LF)OPEN (FWD)
- Battery switch (CR).....ON
- Generator switch (CR)ON
- Ignition switch (CR).....ON
- Engine Cowling Shutters lever (RF)OPEN / As req.
- Friction lever (RF).....MIDDLE
- Wheel BrakesENGAGED & LOCKED

ENGINE START

- Carb. Heat lever (RM).....*On if OAT ≤ 0°C*.....OFF
- Engine Prime (CR)As req.
- Throttle.....FULL RANGE 2X & OPEN 1/3
- Starter switch (CL).....UNCOVER & HOLD
- Magnetos switch (CL)1+2
- ThrottleSet to 40% RPM

ENGINE WARM-UP

- Throttle.....Set to 44-51% RPM
- Wait for CHT ≥ 120°C | Oil Temp. ≥ 40°C | Oil Pres. : Green Arc*
- Oil Radiator & Engine Cowling Shutters levers (RF)...FULL FWD

POST-START

- Altimeter (C)SET
- Accelerometer (CL).....RESET
- Circuit Breakers 3/5/7/8 (LM).....ON
- VHF Radio (CR)SET & TUNED
- Stall Warning switch (RF).....ON
- Elevator TrimSET FOR TAKEOFF

Solo: 1/3 DOWN | 2 pilots: NEUTRAL

TAXI

- Wheel Brakes.....UNLOCK

BEFORE TAKEOFF

- Pitot Heat (CR)ON / As req.
- Artificial Horizon (C)UNCAGE
- Takeoff TrimCHECK
- Flaps (LM)UP then NEUTRAL
- CanopyAs des.

Takeoff	Rotate	90 km/h	Landing	Downwind	170km/h 300m
				Gear / Flaps	170km/h
				Touch-down	120km/h

TAKEOFF

- Wheel Brakes.....HOLD
- Throttle.....Advance to 70% RPM
- Wheel Brakes.....RELEASE
- ThrottleAdvance to FULL
- At 90 km/h.....LIFT NOSE WHEEL
- At 120 km/hLIFT OFF

AFTER TAKEOFF

- Gear.....UP then NEUTRAL
- > 300m AGL Climb Speed170 km/h
- Power Setting800 mmHg & 82% RPM
- CanopyCLOSE

CLIMB

- Power Setting700 mmHg & 70% RPM
- Carb. Heat lever (RM)As req.

CRUISE

- Power Setting680-720 mmHg & 70% RPM
- Speed~220 km/h

VISUAL APPROACH & LANDING

- Altimeter (C)SET
- Power Setting400 mmHg & 70% RPM
- Approach Altitude.....300m AGL or Pattern alt.

On Downwind

- Speed≤ 170 km/h
- Altitude150m AGL
- GearDOWN then NEUTRAL

On Base

- Propeller RPM Control leverFULL FWD

On Final

- Flaps (LM)DOWN then NEUTRAL
- Speed153 km/h
- ThrottleIDLE (Runway assured)
- Speed (Flare)120 km/h

AFTER LANDING | RUNWAY VACATED

- Flaps (LM)UP then NEUTRAL
- Pitot Heat (CR)OFF

SHUTDOWN	
Wheel Brake	ENGAGED & LOCKED
Propeller RPM Control lever	FULL FWD
Throttle.....	IDLE
All breakers and switches.....	OFF
Carb. Heat lever (RM).....	OFF
Artificial Horizon (C).....	CAGED
Throttle	70% RPM for 10” then IDLE
Magnetos switch (CL)	OFF
Fuel Cock lever (LF)	CLOSED
Canopy	OPEN

OPERATIONAL LIMITS	
V _{NE}	420 km/h
Maneuvering	320 km/h
Canopy open	250 km/h
Gear extended	200 km/h
Flaps extended	170 km/h
Best glide	160 km/h
Max G	+7 / -5
Max altitude (no oxygen)	4000 m
Max crosswind	6 m/s 11 kt
STALL SPEEDS	
Normal	110 km/h
Inverted	140 km/h
Flaps extended	100 km/h

POWER SETTINGS		
Condition	%RPM	Manifold
Takeoff	100	125 > Baro. pres.
Nominal #1 (Max cont.)	82	95 > Baro. pres.
Nominal #2	70	75 > Baro. pres.
Cruise #1	64	735
Cruise #2	59	670
AEROBATICS		
All aerobatic maneuvers are permitted.		
GearUP		
FlapsUP		
Canopy.....CLOSED		
Power Setting800 mmHg & 82% RPM or As req.		
ENTRY SPEEDS		
Loop	300 km/h	
Aileron roll	230 km/h	
Barrel roll	250 km/h	
Snap roll	170-190 km/h	
Cuban 8	270 km/h	
1/2 Cuban	300 km/h	
Reverse 1/2 Cuban	300 km/h	
Immelmann	320 km/h	
Spin	82% RPM Slow deceleration > IDLE	