

**NORMAL TAKEOFF**

Flaps	0°-10°
Throttle	Full open
Mixture	Rich (above 3000', lean to max rpm)
Elevator	LIFT NOSE at 55KTS
Climb Spd	70-80 KTS

SHORT FIELD TAKEOFF

Flaps	10°
Brakes Apply	
Throttle	Full open
Mixture	Rich (above 3000', lean to max rpm)
Brakes Release	
Elevator	Slightly Tail Low
Climb Spd	56 KTS (until clear of obstacles)
Flaps	Retract after reaching min 60 KTS

NORMAL LANDING

Airspeed	65-75 KTS (flaps up)
Flaps	10° (<110 KTS) 10°-30° (<85 KTS)
Airspeed	60-70 KTS (flaps down)

SHORT FIELD LANDING

Airspeed	65-75 KTS (flaps up)
Flaps	Full Down - 30°
Airspeed	61 KTS (until flare)
Power	Idle after clearing obstacles
After landing	Flaps – retract

GO AROUND

Throttle	Full Open
Flaps	Retract to 20°
Climb Spd	60 KTS
Flaps	10° (until obstacles cleared) Retract (after safe alt. & 65 KTS)

**RECORD YOUR
TACH TIME IN
BLUE BOOK**

LIMITATIONS/USE:

Service ceiling: 14,000'
No aerobatics, spins, or >60degrees (Normal category)
Commercial License maneuvers approved (Utility cat)

Fuel Takeoff and Land with fuel selector in BOTH. Use of LEFT or RIGHT is limited to level flight only.
Max allowable difference 10gal

Baggage Max 120 lbs total. Max 50 lbs aft of door latch

Starter Duty Cycle 10 sec max crank, then 20 sec cooling. After 3x10sec cranks >10 minutes cooling. After 6 cranks >30 mins.

Leaning on Gnd Set 1200 RPM, lean til max RPM, set appropriate RPM for Gnd ops.

Vapor Lock (on gnd, fluctuations in rpm and fuel flow)

-Mixture – RICH
-RPM – 1800-2000 for 1-2 mins, then IDLE
-RPM – 1200 then lean mixture
-Prior to T/O – full throttle -10 secs, verify smooth

Pre-Heat Temperature: 32°F (2 hrs prior)

Textron Lycoming IO360 180hp 4cyl.
Wingspan 36'1"
Length 27'2"
Height 8'11"
Fuel 2 x 26.5 gal. (53 usable)
Oil 5-8qts 15W50

WEIGHTS

Empty weight	1704
Max T/O & LDG	2550
Max Ramp	2558
Max Baggage	120

SPEEDS

Va.	105kts-90kts (2550-1900lbs)
Vfe	10°=110kts 30°=85kts
Vno	129kts
Vne	163kts
Vy	74kts
Vx	62kts
Best glide [flaps up]	68kts
Max Demonstrated X-wind	– 15kts



PREFLIGHT

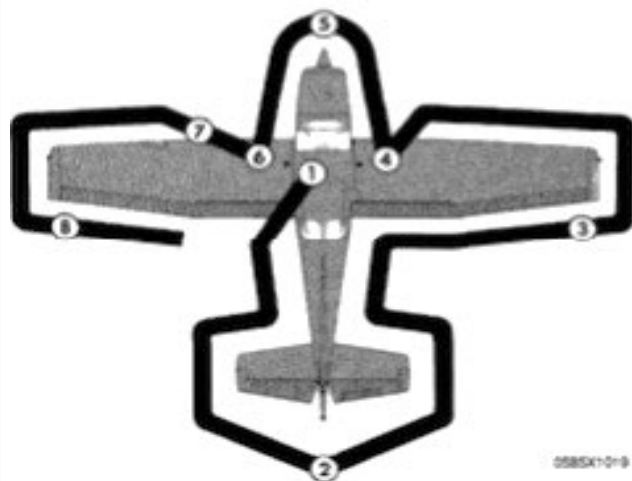
INTERIOR

Note: Use only clean Microfiber towels on glass

- A** - Airworthiness Certificate
- R** - Registration
- R** - Radio License (req'd for int'l ops)
- O** - Operating Limitations (POH)
- W** - Weight & Balance
- Gust Lock - remove
- Ignition Key - out
- Avionics Master Switch - OFF
- Master Switch - ON
- Fuel Qty (and low fuel annunciators) - check
- Avionics Master Switch - ON
- Avionics Cooling Fan - check audibly
- Avionics Master Switch - OFF
- Alternate Static Source - OFF (under throttle)
- Annunciator Panel - TEST (all flash), RELEASE
- Annunciator Panel - only appropriate lights on
- Fuel Selector Valve - BOTH
- Fuel Shutoff Valve - ON (push full in)
- Flaps - EXTEND
- Pitot Heat - ON (check warm within 30 secs)
- Pitot Heat - OFF
- Master Switch - OFF
- Elevator Trim - SET for Takeoff

EXTERIOR

- Baggage Door - CHECK
- Autopilot Static Source - CHECK
- Tie downs - DISCONNECT
- Control Surfaces - CHECK, free and secure
- Trim tab - CHECK secure
- Antennas - CHECK secure/condition
- Flap - CHECK secure/condition
- Aileron - CHECK secure/condition
- Tires and Brakes - CHECK inflation/wear
- Fuel sumps (5 per wing) - DRAIN & inspect
- Fuel Qty & Filler Cap - CHECK Qty & secure
- Engine Sumps (3) - DRAIN & inspect
- Oil Dipstick - CHECK Qty [5-8 qts] & condition
- Engine Cooling Inlets - CLEAR
- Prop, Spinner, Alt. belt - CHECK nicks & secure
- Air Filter - CHECK clean
- Nose Strut & Tire - CHECK inflation & condition
- Left Static Source - CHECK
- Left Wing - *same as right plus:*
 - Stall Warning Opening - CLEAR
 - Landing/Taxi Lights - CHECK
 - Fuel Vent - CLEAR
 - Pitot Cover - REMOVE



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