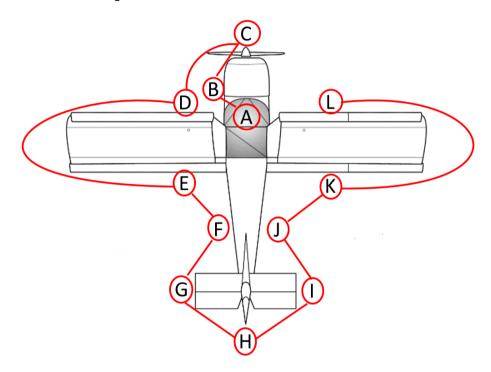
4.4 PREFLIGHT INSPECTION

Prior to any flight, inspect the exterior and interior of the aircraft for anything what looks suspicious or out of line. Use the following pre-flight walk-around checklist as a guide when inspecting the aircraft. Remedy any problems or defects before flight.



PREFLIGHT WALK AROUND

A Cabin:

- 1. Check Aircraft log paper
- 2. Remove any control lock
- 3. Check for fuel or hydraulic smell in the cockpit
- 4. Check brake cylinder for leaks
- 5. Check flight controls for proper and easy movement
- 6. Check circuit breakers
- 7. Check CO2 Detector

8. Ignition switch OFF 9. Master/Alternator OFF

B Oil Level, left side of cowling:

Note: Prior to oil check, turn the propeller by hand several times to pump oil from the engine into the oil tank until you hear a gurgle noise

- Check for any leaks under engine
- 2. Check oil level (Difference between max. and min. mark = 0.75 liter)
- 3. Check coolant level
- 4. Check coolant level recovery bottle

C Cowling, propeller, spinner:

- Check condition and security of cowling fasteners
- 2. Check all cowling intakes for any obstruction
- 3. Check radiator for any leakage
- 4. Check oil cooler for any leakage
- 5. Check propeller leading and trailing edge for nicks and cracks
- 6. Check spinner for structural integrity, cracks and security
- 7. Remove tow bar from nose gear
- 8. Check front gear and fork structural condition and secure attachment
- 9. Check front wheel tire condition and pressure

D Left wing leading edge, left main gear leg:

- 1. Check left door for general condition, proper operation and locking
- 2. Check gear leg for structural condition and secure attachment
- 3. Check wheel tire condition and pressure
- 4. Drain gascolator near left main gear leg
- 5. Drain wing tank
- 6. Check fuel level visually and memorize amount
- 7. Check fuel cap for security, undamaged seal and tight fit
- 8. Check front spar bolt for security
- 9. Check inspection covers for secure attachment
- 10. Check leading edge and slats for any damage
- 11. Check attachments bolts of slats for security
- 12. Check Pitot/AOA Probe for any obstruction and remove cover
- 13. Check wing for structural condition
- 14. Check both wing struts for damage/bending and secure connection
- 15. Check jury struts for damage/bending and secure connection
- 16. Check wing tip area for damage and wear
- 17. Check condition and security of nav/strobe lights

E Left wing trailing edge and control surfaces:

- Check flaperon and hinges for structural condition and secure attachment
- 2. Check free movement of flaperon
- 3. Check rear spar bolt for security
- 4. Check flaperon push rod for security, integrity and freedom

F Rear fuselage right side:

- 1. Check rear fuselage skin for stress, cracks, dents and loose rivets
- 2. Check static port, must be free and unobstructed
- Check COM and ELT Antenna

G Horizontal stabilizer and elevator left side:

- Check horizontal stabilizer for secure condition, structural integrity and secure attachment
- 2. Check condition of elevator hinge and security splint
- 3. Check main elevator attachment bolt for security
- 4. Check free movement of elevator
- 5. Check upper and lower elevator control cable attachment for condition and security
- 6. Check trim tab for security
- 7. Check trim tab pushrod for security and integrity

H Rudder:

- 1. Check rudder for secure condition and structural integrity
- 2. Check rudder hinges for secure attachment and free movement
- 3. Check free movement of rudder
- 4. Check rudder control cable attachment for condition and security

I Horizontal stabilizer and elevator right side:

- Check horizontal stabilizer for secure condition, structural integrity and secure attachment
- 2. Check condition of elevator hinge and security splint

J Rear fuselage left side:

- 1. Check rear fuselage skin for stress, cracks, dents and loose rivets
- 2. Check static port, must be free and unobstructed

K Right wing trailing edge and flaperon:

- 1. Check flaperon push rod for security, integrity and freedom
- 2. Check rear spar bolt for security
- Check flaperon and hinges for structural condition and secure attachment
- 4. Check free movement of flaperon

L Right wing leading edge, right main gear leg:

- 5. Check condition and security of nav/strobe lights
- 6. Check wing tip area for damage and wear
- 7. Check both wing struts for damage/bending and secure connection
- 8. Check jury struts for damage/bending and secure connection
- 9. Check wing for structural condition
- 10. Check leading edge and slats for any damage
- 11. Check attachments bolts of slats for security
- 12. Check inspection covers for secure attachment
- 13. Check front spar bolt security
- 14. Drain wing tank
- 15. Check fuel level visually and memorize amount
- 16. Check fuel cap for security, undamaged seal and tight fit
- 17. Check wheel tire condition and pressure
- 18. Check gear leg for structural condition and secure attachment
- 19. Check right door for general condition, proper operation and locking

4.5 NORMAL PROCEDURES AND CHECKLIST

PF	PRE-FLIGHT			
1.	Outside Check	COMPLETED		
2.	Tow Bar	REMOVED		
3.	Control Locks / Tie Downs	REMOVED		
4.	Baggage	SECURED		
5.	Master / Alternator Switch	ON		
6.	EFIS	ON		
7.	Circuit Breakers	CHECKED		
8.	Flaps	UP		
9.	Seat Belts	FASTENED		
10	.Passenger	INSTRUCTED		
BE	FORE ENGINE START			
1.	Doors	CLOSED AND LATCHED		
2.	Parking Brake	SET		
3.	Fuel Quantity, Endurance	CHECKED		
1	Fuel Shutoff Valve	ON		

START ENGINE	
1. Fuel Pump	ON
2. Carburetor Heat	OFF
3. Throttle	IDLE
4. Choke	COLD ON, HOT OFF
5. Propeller Area	FREE
6. Ignition Switch	START
	max 10 sec / cooling period 2mir
7. Throttle	2500 RPM
8. Oil pressure	CHECK RISE WITHIN 10 sec.
9. Alternator Light	OFF
10.Fuel Pump	OFF
11.Choke	OFF
12.Warming up period	2000 RPM, OIL TEMP 50°C
13.Engine instruments	CHECKED
14. Avionics (VHF, XPDR)) ON AND SET
	ON / AS REQUIRED
16.Flaps	UP
17.Altimeter	SET QNH
18.Alternator	ON, AMP, VOLT CHECKED
TAXI	
1. Parking Brake	OFF
2 Brakes and Steering	CHECK

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ΚL	אוע	<u>UP</u>
1.	Pr	opeller and blast areaCLEAR
2.	Pa	arking BrakeSET
3.	Er	ngine Temp and PressureWITHIN LIMITS
4.	Th	rottleSET 4000 RPM
5.	Ma	agnetos (L-B-R-L-B) MAX. 300 DROP / DIFF 120
6.	Ca	arburetor heatON/OFF CHECK RPM DROP
7.	Th	rottleSET IDLE / 2000 RPM
<u>C</u>	HEC	CK BEFORE DEPARTURE
1.	Fu	el quantityENDURANCE?
2.	Fu	el Shutoff ValveON
3.	Fu	el PumpON
4.	Ca	arburetor HeatAS REQUIRED
5.	Fla	apsSET FOR DEPARTURE
6.	Tr	imsSET FOR DEPARTURE
7.	Ca	abin and PAXSECURED
8.	Co	ontrolsFREE AND EASY
9.	Fli	ght instr. & avionicsSET FOR DEPARTURE
10	.Er	ngine InstrumentsWITHIN LIMITS
11	.De	eparture briefingCOMPLETED
	1.	Surface wind
	2.	Speeds (45 MPH IAS Rotate, Vx 55 MPH IAS, then Vy 60 MPH IAS)
	3.	Routing, Altitude, Restrictions
	4.	Emergency Procedures, Best Glide 67 MPH IAS

LII	NE UP
1.	Strobe LightsON
2.	Landing LightON
3.	Approach Sector and RunwayFREE
4.	Runway HDGCHECKED
<u>T</u> A	KE OFF NORMAL
1.	Flaps UP – 1/2
2.	ThrottleOPEN, ~ 5800 RPM (MAX. 5 MIN)
3.	Main Wheel IASROTATE AT 45 MPH
4.	Climb Speed Vx IAS 55 MPH
<u>T</u> A	KE OFF SHORT FIELD
1.	Flaps1/2
2.	BrakesHOLD
3.	ThrottleFULL OPEN (max 5800 RPM)
4.	BrakesRELEASE
5.	Elevator Control SLIGHT BACK PRESSURE UNTIL
	AIRBORNE
6.	Climb Speed Vx IAS 55 MPH
<u>CL</u>	<u>IMB</u>
1.	Climb PowerREDUCE PWR TO MAX. 5500 RPM
2.	FlapsUP
2	Lights AC DEOLUDED

CRUISE

1.	Cruise Power	RPM MAX. 5500 RPM
2.	Fuel Pump	AS REQUIRED
3.	Fuel Quantity	CHECKED



Avoid continuous operation with oil temperatures below the normal operating range of 90 - 110 °C. Reach at least once daily an oil temperature of 100°C to evaporate condensed water.

DESCENT

1.	Approach Briefing	COMPLETED
2.	Avionics	SET & CHECKED
3.	Carburetor Heat	AS REQUIRED
4.	Cabin and PAX	SECURED

APPROACH

1.	Altimeter	SET QNH
2.	Fuel Pump	ON
3.	Fuel Quantity	CHECKED (ENDURANCE?)
4.	Landing Light	ON

FINAL

1.	Flaps	SET FOR LANDING
2.	Carburetor Heat	OFF
3.	Final Power	ABOVE IDLE
4.	Speed IAS	55 – 60 MPH



Full Flaps will lead to a very steep approach. Avoid hard landings by using some Power

GO AROUND

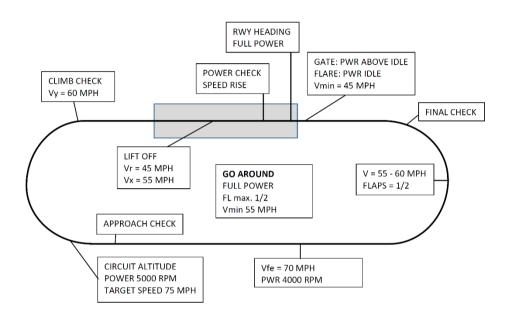
- 3. FlapsGENTLE RETRACT TO DEPARTURE SETTING

AFTER LANDING

- 1. Fuel Pump......OFF
- 2. Strobe and Landing lights OFF
- 3. FlapsUP

1.	Parking Brake	SET
2.	Flaps	1/2
3.	ELT on 121.50	CHECK
4.	Avionics	OFF
5.	Engine Instruments IN NORMAL	OPERATION RANGE
6.	Throttle~ 2000 RPM	1 2 MIN COOL DOWN
7.	Ignition Key	OFF / REMOVED
8.	Fuel Selector	OFF
9.	All electrical consumers	OFF
10	.Master / Alternator Switch	OFF
11	.Parking BrakeS	ET AS CONVENIENT

STANDARD CIRCUIT



Speed Summary in IAS

Normal Climb: 65 – 70 MPH
Best Angle of Climb Vx: 55 MPH

Best Rate of Climb Vy: 60 MPH

Approach Speed: 55 - 60 MPHTouch Down Speed: 45 - 50 MPH