



Check 'Weather Minima' guidelines to determine if it is safe to fly:

Ceiling: 2000 AGL

Vis: > 10s

Winds: 15G20

Crosswind: < 15

Runway Minimum Length: 2100'. Take-off and landing on PAVED runways ONLY.

Preflight (Inside Cockpit)		Engine Start (Hot)	
W&B / Performance	Complete	Throttle	Cracked
AROW documents	On Board	MASTER	ON
Fuel Gauges / Fuel Valve	Check	Fuel Pump	ON
Lights / Flaps	Check	Mixture	FULL RICH
Ignition / Mags	OFF	Starter	Engage
External		Throttle	1000 – 1200 RPM
Locks / Chocks	Remove	Oil Pressure	Check
Fuel Sump	Drain	Fuel Pump	OFF
Fuel Tank / Quantity	Inspect	Fuel Pressure	Check
Skin / Canopy	Check	Engine Start (Flooded)	
Flaps / Ailerons / Rudder	Check	Throttle	Open ½ way
Tires / Brakes / Struts	Inspect	MASTER	ON
Oil	Check	Fuel Pump	OFF
Engine Cowling - Secure & Latch Correct		Mixture	Idle Cut-Off
Prop	Inspect	Starter	Engage
Landing Light / Nav Lights	Inspect	Mixture	Advance
Pitot / Static	Inspect	Throttle	Retard
Engine Start (Cold)		Oil Pressure	Check
Briefing / Seat Belts	Check	Fuel Pressure	Check
Fuel Selector	Desired Tank	Warm Up	
Beacon / Lights	As Needed	Throttle	800 – 1200 RPM
Circuit Breakers / Fuses	Check	Mixture	LEAN
MASTER	ON	Taxiing	
Mixture	FULL RICH	Brakes / Instruments	Check
Throttle	½ inch	Fuel Pump	OFF
Fuel Pump	ON	Ground Check	
Fuel Pressure	Check if pick up	Brakes	SET
Fuel Pump	OFF	Vicinity	Clear
Prime	4	Throttle	1800 RPM
Primer	In and Locked	Mixture	Check, Set smooth
Starter	Engage	Magnetos	Test, Drop: 175 Max / 50 Diff
Throttle	1000 – 1200 RPM	Vacuum	5.0" Hg ± 0.1
Oil Pressure	Check	Oil Pressure	Check in green
Fuel Pressure	Check	Carburetor Heat	Check
AVIONICS MASTER	ON	Throttle	Idle check
Transponder	STBY	Carburetor Heat	OFF
Flaps	RETRACT	Power	Set 1000 – 1200 RPM
ATIS	Obtain	Engine Monitor	Check
Taxi Clearance	Obtain		



Before Takeoff		Approach					
Trim	SET for TAKEOFF	Brakes	OFF, Check Handle				
Throttle Friction	Firm	Magnetos	ON BOTH				
Magnetos	BOTH ON	Mixture	RICH				
Mixture	SET	Carburetor Heat	Check				
Fuel	On Fullest Tank (Left tank if less than half)	Fuel	On Fullest Tank				
Electric Fuel Pump	ON	Flaps	SET (89 KIAS Max)				
Oil Temperature	Check - in green	Gauges	Oil Temp & Pressure				
Oil Pressure	Check - in green	Gyros	Set Heading (Confirm Runway)				
Engine Gauges	Check	Seat Belts	Tight				
Instruments	Check Heading Indicator and Altimeter	Doors	Closed & Locked				
Static Source	Normal	Trim	70 KIAS				
Seats	Latched in Track	Final Approach Speed	67 KIAS				
Seat Belts	Secure	Final Approach					
Doors	Closed & Latched	Mixture	RICH				
Overhead Latch	Engaged	Carburetor Heat	Check				
Controls	Correct and Free	Electric Fuel Pump	ON				
Transponder	Check Code	After Landing					
Normal Takeoff		Flaps	Retract				
V _R	53 KIAS	Electric Fuel Pump	OFF				
V _Y	70 KIAS	Transponder	STBY when clear of runway				
Short Field Takeoff		Mixture Lean for Taxi					
Flaps	21° (first notch)	Shut Down					
Accelerate	53 KIAS	Avionics Master	OFF				
Airspeed (until over obstacle)	61 KIAS	Magnetos	Check Ground				
Accelerate (after obstacle)	70 KIAS	Throttle	1200 RPM 1 minute, then CLOSED				
Flaps	200' AGL retract slowly	Mixture	Idle Cut-Off				
Climb		Magnetos	OFF				
V _X – Best Angle of Climb Speed	61 KIAS	Master Switch	OFF				
V _Y – Best Rate of Climb Speed	70 KIAS	GPS	OFF				
Electric Fuel Pump	> 1000' AGL OFF	iPad	Shut Down				
Lower nose for traffic check from time to time		<ul style="list-style-type: none"> • Close flight plan. • For outside parking, use seat belts for control lock. • Remove all personal belongings & any garbage. • Ensure aircraft interior is clean. • Clean aircraft exterior. 					
Cruising							
Normal Max Power	75%						
Power	Set per Table						
Mixture	Adjust						
Fuel Selector	Switch as needed						
Cruise Profile							
PWR	PALT	RPM	PALT	RPM	PALT	RPM	GPH
55%	2000	2180	4000	2210	8000	2260	5.0
65%	2000	2310	4000	2350	8000	2415	5.8
75%	2000	2420	4000	2465	8000	2540	6.6