PA28-181 Piper Cherokee Archer II N9341C

Ru	n Up
Brakes	Set or Hold
Flight Control	Free and correct
Throttle	2000 RPMs
Carb Heat	Check for drop
Mags	Max drop 175 RPMs
	Max diff 50 RPMs
Vacuum	4.8" to 5.2"
Fuel Pressure	On - Check Press Off
Alternate Static Air	Open/Close (VSI Jump)
Oil temp and pressure	Check - green
Alternator output	Check - positive
Throttle	Idle/800-1000 RPMs
Annunciator Panel Pitot Heat Test	Test (Vac-Alt-Oil)
	On/Off - jump in amps
Throttle Friction Lock	Adjust
	S - SET/CHECK
- Magnetic compass - Altimeter	Fluid, ind. Known hdg Within 75' of field elev.
- Heading/DG	Set to mag compass
- Attitude indicator	Settled, set
- RADIOS	Set - Checked
- VORs	Set - Tuned
- DME	Set - Tuned
- Markers	Test
- CLOCK	Set
Before	Takeoff:
Door	Latched/locked
Trim, Electric Trim	Set for takeoff/Neutral
Autopilot	OFF
Transponder	ALT - 1200
Carb Heat	OFF
Fuel Pump	ON
Mixture	Full Rich
Primer	In and Locked
Mags	Both
Fuel Selector	Desired Tank

	Takeoff	Normal	Soft
Flaps Breaks		None or 10	25
Breaks		Release	Hold
Throttle		Full	Full
Rotate		55-65 kn	41-49 kn
Climb		79-87 kn	64 kn
Flaps		Retract slow	ly

Cruise —		
Throttle	Reduce to desired st.	
Fuel pump Mixture	OFF	
Mixture	Lean as appropriate	

Landing ———		
BCGUMPS		
Boost pump	ON	
Carb Heat	Check	
Gas	Fullest Tank	
Undercarriage	Not applicable	
Mixture	Full Rich	
Prop	Not applicable	
Seatbelts	ON	

	Clear of Runway ———
Flaps	Retract
Flaps Fuel Pump	OFF
Carb Heat	OFF
Mixture	Lean for taxi
Transponder	Standby

Shut Down		
Radios/all electrical	OFF	
Panel Light	OFF	
Nav/Anti Collision	OFF	
Throttle	1000 RPMs	
Mixture	Idle/cut off	
Mags	OFF	
Master	OFF	
Controls	Secure with belts	

Important (V) Speeds	s (KIAS) —
Vso	49
Vs1	55
Vr	46 (pref 55)
Vx	64
Vy	76
Best glide	74
Vfe	102
Va	105
Vno	119
Vne	150
Normal approach	64 (PREF 70-75)
Shortfield	58

PA28-181 Piper Cherokee Archer II N9341C

Preflight	Inspection ———
Required documents	On board
Electrical equipment	OFF
Master Switch	On board
Fuel quantity	Check
Lights	ON - Check - Walk-OFF
Master Switch	OFF
Pitot Drain	Press (lower let floor)
Primary Flight Controls	Proper operation
Flaps	Extend
Right Wing:	
Flap Aileron	Check hinges/motion
Nav/anticollision lights	Check secure
Leading edge	Check for damage
Fuel caps and fuel qty	Check visually
Fuel sump	Drain
Main wheel/strut	Check, 4.5" min.
Brakes	Inspect
Nose:	
Windshield	Check clean
Oil	4 Quarts Min
Cowling	Secure
Alternator belt	Check tension
Prop & spinner	Check for damage
Nose wheel/strut	Check 3.5" min
Fuel sump	Drain
Left Wing:	
Fuel caps and fuel qty	Check visually
Fuel sump	Drain
Main wheel/strut	Check, 4.5" min.
Brakes	Inspect
Leading edge, stall horn	Check for damage
Pitot head	Check for blockage
Nav/anticollision lights	Check secure
Aileron	Check hinges/motion
Flap	Check hinges/motion
Fuselage/Tail:	Coouro
Antennas	Secure
Lights	Secure
Stabilator	Check
Tail and Rudder	Check

	Before Starting————
Preflight	Complete
Belts/harness	Secure
Circuit Breakers	Check in
Radios/electrical	OFF
Transponder	OFF - squawking 1200
Carb Heat	OFF
Fuel Selector	Fullest tank

	Starting Engine —
Brake	Set or Hold
Mixture	Rich
Throttle	1/4" open cold, 1/2" hot
Prime	As required (3-6)
Master Switch	ON
Beacon Light	ON
Fuel Pump	ON
Propellor Area	CLEAR!
Starter	Engage
Throttle	800-1000 RPMs
Oil Pressure	Check

Pre - taxi		
Navigation/landing lights	ON (if night)	
Fuel pump	OFF	
Radios/electrical	ON (if night)	
Transponder	Standby - 1200	
Mixture	Lean for taxi	
Brakes & Steering	Test	
Instruments-SET/CHECK		
- Magnetic Compass	Filled w/fluid, indicating	
	known direction	
- Turn and Bank	Filled w/fluid, ball indicates	
	skid in taxiing turns	
- Altimeter	Within 75' of field elevation	
- Heading DG	Set to mag compass	
- Attitude indicator	Settles within 5 minutes	
	(do not set until run un)	