PA28-181 Piper Cherokee Archer II N9341C

R	un 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 Throttle	Check - positive Idle/800 RPM	
Annunciator Panel	Test (Vac-Alt-Oil)	
Pitot Heat Test	On/Off - jump in amps	
Throttle Friction Lock	Adjust	
Instruments - SET/CHECK		
- Magnetic compass	Fluid, ind. Known hdg	
- Altimeter	Within 75' of field elev.	
- Heading/DG	Set to mag compass	
- Attitude indicator	Settled, set	
- RADIOS	Set - Checked	
- VORs	Set - Tuned	
- Markers	Check	
- CLOCK	Set	
Befor	e 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 kt	41-49 kt
Climb		79-87 kt	64 kt
Flaps		Retract slow	ιly

Cruise		
Throttle	Reduce to desired st.	
Fuel pump	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

——— Shu	t 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	(KIAS)
Vso 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

Preflight	Inspection ———
Required documents	On board
Electrical equipment	OFF
Master Switch	On
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, 3" 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" min
Fuel sump	Drain
Left Wing:	
Fuel caps and fuel qty	Check visually
Fuel sump	Drain
Main wheel/strut	Check, 3" 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:	0
Antennas	Secure
Lights	Secure
Stabilator	Check
Tail and Rudder	Check

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

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

Pre	- taxi
Navigation/landing lights	ON (if night)
Fuel pump	OFF
Radios/electrical	ON
Transponder	1200 or Set
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 up)