Piper Comanche PA-24-250

Preflight - Initial	
Cowl plugs	removed,
	stowed
Tail cover	removed,
	stowed
Pitot cover	removed,
	stowed .
Cockpit cover	removed,
Mantan	stowed off
Master	-
Control wheel	release restraint
Avionics master	check off
Magnetos	check off
Landing gear	down
selector	
Master	on
Fuel Gauges	sufficient gty
	each tank
<u>Nay</u> lights	on
Landing lights	on
Strobe lights	on
Pitot heat	on
Walk around	confirm nav.
	landing, strobe
	on, pitot warm
Master	off
Required papers,	confirm on
navigation charts	board
Flaps	down full

Preflight - Fuel Check		
Fuel selector	left tank	
Fuel strainer/sump	drain, check for water and contaminants	
Fuel selector	right tank	
Fuel strainer/sump	drain, check for water and contaminants	

Preflight ·	Wings
Control surfaces	check no binding, interference, free of
Pitot head (left wing)	snow/ice/frost cover removed, hole clear
Stall warning switch (left wing) Fuel tank	moves freely, light illuminates check supply visually, dip, ensure cover secure
Fuel tank vent and overflow drain	open
Main gear strut	proper inflation 2 3/4 in
Tire	check for wear and proper inflation (42 psi)
Brake	sufficient thickness on pad, no scoring on disc
chocks/chains	removed, stowed
Wing tip/nay night	Check

Preflight - Fuselage/Empennage		
Static Vents (left	holes clear	
and right)		
Control surfaces	check no	
	binding,	
	interference,	
	free of	
	snow/ice/frost	
Tail Cover	check removed	
Chains	removed	
Tow bar	stowed	
Baggage Door	secured	

Preflight - Nose	
Windshield	clean
Engine	check fuel/oil
compartment	leaks
Alternator belt	check tension
Brake fluid	check level
Oil	check, fill to 7 1/2 gts local flights
Dip stick and oil	secure
inspection cover	
Air inlets	clear
Propeller, spinner	check for nicks,
	cracks, defects
Propeller vicinity	clear of debris
Nose gear strut	inflated 23/4 in
Tire	check wear, inflation (27 psi)
Cowling	3 latches per side

Engine Start		
Parking brake	on	
Fuel	on, desired tank	
Avionics master	off	
Master	on	
Electric fuel pump	on	
Strobe lights	on	
Propeller	full Increase	
Mixture	full rich	
Throttle	open 1/4 inch	
Prime	6-8 pumps	
Electric fuel pump	off	
Magnetos	on	
Clear	prop	
Starter	engage (max 15 seconds)	
Throttle	Engine firing evenly retard to	
Oil pressure	800 rpm check 60-85	
Oil temp	warming 120-	
	245	

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Engine Start (Hot)	
Mixture	full rich
Propeller	full Increase
Throttle	open 1/2 in
Primer	in and locked, do not prime
Electric fuel pump	on to confirm flow, then off
Magnetos	on
Clear	prop
Starter	engage (max 30 seconds)
Throttle	open full then return to 1/2 in while cranking
Throttle	adjust after start
Oil pressure	check

Engine Start	(Flooded)
Throttle	full forward
	(open)
Mixture	idle cut off
Propeller	full Increase
Master	check on
Electric fuel pump	off
Primer	in and locked,
	do not prime
Clear	prop
Starter	engage (max 30
	seconds)
Throttle	retard
Mixture	advance slowly
	after start
Oil pressure	check
Time	note engine
	start

Before Taxiing		
on		
retracted		
in and locked		
lean for taxi		
check green		
on		
on		
on/test position		
on		
set for takeoff		
check erect and set		
set to magnetic compass heading		
check zero		
answer prompts		
check		
set to pressure or local field elevation		
wind and set		
latched		
fastened		
obtain		

Run up / Ground Check	
Brakes	set
Warm up	2 to 4 minutes at 800-1200 rpm
Transponder	confirm on
Mixture	still leaned
Propeller	full Increase
Fuel Selector	proper tank
Fuel Pressure	check
Flight Controls	free and clear

note taxi

Time

Run up / Gro	und Check
Throttle	1800 rpm
Oil pressure	Checkgreen
Oil temperature	Check green or warming
Manifold Pressure	check 15" Hg
Vacuum	5" Hg + 0.1 / - 0.2
Ammeter/Voltmeter	Check charging, voltage near 14v
Magnetos Left/Right	max drop 175, max dif 50 rpm
Carb heat	check, confirm rpm drop
*avoid long ground on as air is u	ops with carb heat
Propeller	Cycle as needed to circulate oil
*do not exceed 500 than 3 se	A CONTRACTOR OF THE PARTY OF TH
Propeller/throttle	test governor
Throttle	retard to 800

Take Off and Climb Out		
Clearance	obtain	
Transponder	set to alt	
Fuel Selector	desired tank	
Electric Fuel Pump	on	
Flaps	set as desired	
Elevator Trim	set for takeoff	
	(nuetral)	
Directional Gyro	set rwy heading	
Strobe Lights	confirm on	
Landing/Nay Lights	on as needed	
Mixture	full rich	
Throttle	advance slowly,	
	smoothly to full	
Rotate	65-70 kts	
Control wheel	back pressure,	
	climb attitude	

note departure

Time

Take Off and	Climb Out
Establish positive rat	e of climb
Area around manual gear lever	clear
Brakes	stop wheel spin
Landing Gear	Retract end rwy
Gear Light	amber
Reduced Power Clim	b
Propeller	RPM 2500
Throttle	Man press 25" Hg
Elevator Trim	as needed
Climb best enroute	104 kts
Electric Fuel Pump	off
Mixture	lean

Approach and Landing						
10 minutes out	slow, descend					
Seats	Erect					
Seat Belts	Fastened					
Electric Fuel Pump	On					
Fuel Selector	desired tank					
Landing Lights	on as needed					
Autopilot	off					
Carb Heat	as required					
Area around	clear					
landing gear lever						
Landing Gear	down under 108 kts					
	recommended					
	130 kts max					
Gear indicator	green					
Flaps	below 87 kts					
	recommended					
	108 kts max					
Trim tab	set for landing					
Mixture	enrich as					
	required					
Propeller Control	Full forward -					
	increase RPM					
GUMP check	on final					
Vapp	72 kts					

After Landing						
Off runway	hold for					
	clearance					
Taxi	Obtain					
	clearance					
Flaps	up					
Carb Heat	off					
Fuel Pump	off					
Transponder	standby					
Pitot Heat	off					
Landing Lights	off					
Nay Lights	off					

Engine Shutdown					
Idle	until a decided				
	decrease in CHT				
	is noted				
Tune comm to	Check ELT for				
121.5	false operation				
Strobe lights	off				
Nay, Panel lights	off				
Avionics Master	off				
Throttle	1800 rpm				
Clear plugs	15-20 seconds				
Throttle	< 1000 rpm				
Wait until EGT	< 900				
decreased					
Mag check	confirm then re-				
	enable				
Mixture	idle cut-off				
Magnetos	off				
Master switch	off				
Time	note shutdown				

Parking / Securing						
Wheel chocks	in place					
Tie downs	secure					
Pitot head	cover					
Cowl plugs	in place					
Tail cone	cover					
Control Wheel	secure restraint					

PA-24-250 V Speeds (kts)

2000	2250	2500	2800		Gross Weight
104	110	116	123	Va	Design Maneuvering Speed
61	65	68	72	Vapp	Final approach to landing speed
			108	Vfe	Maximum flap extension speed
			129	Vle	Landing gear extended speed
			129	Vlo	Landing gear operation speed
			199	Vne	Never Exceed speed
			157	Vno	Maximum structural cruising speed
63	66	70	74	Vr	Rotation speed
					Stall speed with flaps and gear
48	51	54	57	Vs0	extended
					Stall speed with flaps and gear
53	56	60	63	Vs1	retracted
62	65	69	73	Vx	Best angle of climb speed
77	82	86	91	Vy	Best rate of climb speed
88	93	98	104		Best en route rate of climb speed
74	78	82	87	Vbg	Best Glide Speed Optimum
63	66	70	74		Best Glide Speed Endurance
			17		Demonstrated crosswind component

Parking / Securing								
Wheel chocks	in place							
Tie downs	secure							
Pitot head	cover							
Cowl plugs	in place							
Tail cone	cover							
Control Wheel	secure restraint							
Parking brake	disengaged							
Fuel selector	off							
Cabin freshair inlets	closed							
Storm window	closed							
Tow bar	stowed							
Doors (cabin,	locked							
baggage)								
Cockpit	covered							

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Soft Field Landing							
Airspeed on final	70 kts						
Throttle	carry power until flare						
Flaps	leave extended to maximize wing lift						
Control Wheel	back pressure to relieve airplane weight						
Brakes	utilize field conditions to slow airplane, minimum						
	braking						
	application						

Short Field Landing					
Airspeed on final	70 kts				
Throttle	carry power until flare				
Flaps	retract immediately				
	after touchdown				
Control Wheel	full back				
	pressure to put airplane weight				
	on main landing				
	gear				
Brakes	apply heavily				

Speeds	KIAS
Max	165
75% @ 7000	157
65% @ 10000	154
55% @ 14000	142
45% @ 15000	130
Stall full flaps/gear ext	56
Clean	62

					Арр				
06/18	ATIS	Ground	Tower	Clear	Dep	Runway	Elev	TPA/Dir	ASOS
MYF	126.9	118.225	119.2	123.725	124.35	10L-28R	427	1427-L-R	858-576-4337
					119.6	05-23		1427-L	
						10R-28L		1427-R-L	
SEE	125.45	121.7	120.7	125.1	124.35	09R-27L	388	1400-L	619-449-1228
						09L-27R		800-L	
						17-35		1400-L-R	
CRQ	120.15	121.8	118.6	134.85	127.3	06-24	330	1500-L-R	760-930-0864
RNM	132.025	121.65	119.875		132.2	09-27	1395	2395-L	760-789-0736
					127.3				

