

PREFLIGHT

PREPARATION

Covers/Plugs/Tiedowns/Streamers...Remove
Windshield.....Check/Clean

Note: Use only clean microfiber towels on glass

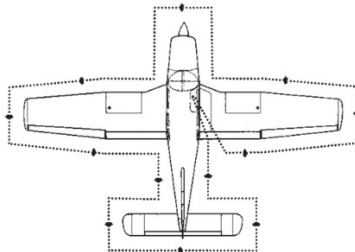
INTERIOR

Control Lock.....Remove
Avionics Master Switch..... OFF
Master Switch..... ON
Fuel Selector Valve.....Desired Tank
Alt Static Source Valve..... OFF
Ignition Key Out
G3X Database.....Check/Continue
EIS Tape..... Touch for Engine Page
Tach (Engine Hours).....Check/Record
Hobbs (Total Hours).....Check/Record
Exterior Lights/Pitot Heat/Stall Horn....Check
Master Switch..... OFF
FlapsCheck operation
Pitot/Static System Drain

EXTERIOR

Control Surfaces Check free and secure
Right Aileron..... Check secure/condition
Tire and Brake..... Check inflation/wear
Fuel Tank Vents.....Check clear
Fuel Sumps..... Drain & Inspect

Fuel & Filler Cap Check qty & Secure
Engine Cooling Inlets.....Clear
Prop & Spinner...Check (nicks, secure, leaks)
Landing Lights.....Check
Nose Strut & Tire...Check (Inflation/condition)
Oil Dipstick.....Check (9-12 qts & condition)
Fuel Sump..... Drain & Inspect
Left Wing.....Same as right plus:
Pitot Mast.....Check clear
Static Ports (Left).....Check
Empennage.....Check
Static Ports (Right).....Check



BEFORE STARTING ENGINE

Pre-Flight InspectionComplete
Seats/Belts/Harnesses.....Adjust/ON
Fuel Selector.....desired tank
Circuit Breakers.....Checked IN
Electrical Equipment (except FIN) OFF
Brakes.....Parking Brake OFF / Brakes Hold

STARTING ENGINE

Master Switch.....ON
Fuel Pump.....ON
Mixture.....RICH
Propeller High RPM
Throttle.....OPEN 1/4 travel
Carb Heat COLD
Prime.....As required [6-8 strokes]/LOCK
EIS Tape..... Touch for Engine Page
Propeller Area "CLEAR"
Ignition Switch START

NOTE: To clear flooded engine:
- Throttle - OPEN, fuel pump OFF, Mixt.-IDLE
- With lightoff – Mixt-advance, Throttle IDLE

Oil Pressure.....Check
AmmeterCheck
Voltage.....Check
Mixture.....(Consider) LEAN
Avionics Master ON
GTN Database.....Check/Continue
HSI NAV Source.....Verify "GPS1"
Fuel Calc..... Touch to check/Set Fuel qty
[Noise Canceling/Flightstream.....ON/Pair]

BEFORE TAXI

Weather Obtain
G3X,GTN, COM Set and Check
Exterior LightsAs required
Brakes.....Roll forward/Test

BEFORE TAKEOFF

- Autopilot.....Engage
- Flight Controls..... Check Resistance
- Autopilot DISC Button..... Press
- Flight Director (FD).....OFF

Flight Controls..... Free & Correct
Fuel Selector..... Desired Tank
Mixture.....RICH

- Throttle.....2000 RPM
- Magneto Check(175 max drop/50 diff)
- PropellerCycle (High/Low/High)
- Carb. HeatON/Check RPM drop
- Eng. Instruments & AmmeterCheck
- Fuel Pump..... OFF/check press./ON
- ThrottleCheck IDLE
- Carb. HeatOFF/Set 1000RPM

Before Lineup Items

Stab. TrimSet for Takeoff
FlapsSet for Takeoff
G3X, GTN, COM, FDAs required
Fuel Pump.....Check ON
LightsAs required
MixtureRICH
Cabin Doors & Windows....Closed & Locked

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NORMAL TAKEOFF

FlapsUP
Carb Heat..... COLD
Fuel Pump.....ON
Throttle Full OPEN/2400 RPM
ElevatorLift nose at 60-65KTS
Climb Spd.....90KTS

SHORT FIELD TAKEOFF

Flaps..... 25°
Carb Heat.....COLD
Fuel Pump.....ON
Brakes.....Apply
ThrottleFull OPEN/2400 RPM
BrakesRelease
ElevatorSlightly Tail low
Climb Spd..... 73 KTS (until clear of obstacles)
Flaps.....Retract slowly – Vy 85 KTS

CLIMB

Power 23"/2400 RPM
Airspeed (clear of obstacles)..... 90KTS
Mixture in Climb.....RICH<5000', LEAN above

CRUISE

Fuel Pump OFF
PowerSet for Cruise
Mixture.....LEAN
Lights.....As required

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DESCENT

Carb HeatAs required
MixtureEnrich as required
Flaps.....As required<102KTS

BEFORE LANDING

Seats and HarnessesCheck secure
Fuel Selector.....Proper Tank
Mixture RICH
Propeller HIGH RPM
Fuel Pump.....ON
Carb Heat..... (if icing indication) ON
Landing Light..... ON

NORMAL LANDING

Flaps<102KTS
Airspeed (Flaps 40°)72KTS

GO AROUND

Throttle.....Full OPEN/2400 RPM
Carb Heat.....check COLD
Flaps Retract to 25°
Climb Spd 85KTS (until obstacles cleared)
Flaps.....Retract slowly after safe alt.

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AFTER LANDING

FlapsUP
Mixture (Consider) LEAN
Fuel Pump.....OFF
Lights.....As required

SHUTDOWN - SECURING

Parking Brake.....Only if required
Electrical Equipment (except FIN).....OFF
Avionics Master SwitchOFF
Mixture IDLE CUT OFF
Ignition SwitchOFF (remove key)
EIS Tape..... Touch for Engine Page
Tach (Engine Hours).....Check/Record
Hobbs (Total Hours).....Check/Record
Master Switch.....OFF
Control LockInstall

*Blue Book
*Personal items, Tie-Downs, Chocks & Cover
*Blue Sky Credit Card – IN GLOVE BOX
*Do you need to CLOSE FLIGHT PLAN?

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PIPER PA28-236

Engine.....Lycoming 6cyl.
O540-J3A5D 235 HP
Wingspan.....35.4'
Length.....24.7'
Height7.2'
Fuel.....2 x 38.5GAL (72GAL usable)
Oil.....9-12QTS (12QTS capacity)

WEIGHTS

Useful Load1143 lbs
Max Ramp.....3011 lbs
Max T/O.....3000 lbs
Max LDG3000 lbs
Max Baggage 200 lbs

SPEEDS

Va124KTS (3000 lbs)
Vfe102KTS
Vno137KTS
Vne173KTS
Vy 85KTS
Vx 73KTS
Best Glide [Flaps UP] 85KTS – 3000 lbs
Max Dem'strd X-wind 17KTS

LIMITATIONS

Service ceiling17,500FT
No aerobatics, spins, bank >60°, pitch >30°
Baggage200LBS
Flaps.....T/O: 0°-25°, LDG: 0°-40°
Pre-Heat Temp.....32°F (2hrs prior)

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