

**PREFLIGHT**

**PREPARATION**

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

*Note:* Use only clean microfiber towels on glass

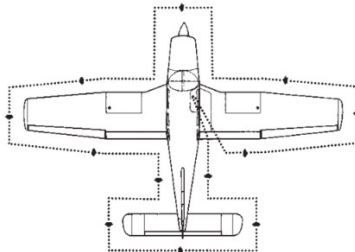
**INTERIOR**

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  
Flaps .....Check 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 Inspection ..... Complete  
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  
Ammeter .....Check  
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 Lights .....As 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)
- Propeller .....Cycle (High/Low/High)
- Carb. Heat .....ON/Check RPM drop
- Eng. Instruments & Ammeter .....Check
- Fuel Pump..... OFF/check press./ON
- Throttle .....Check IDLE
- Carb. Heat .....OFF/Set 1000RPM

*\*Before Lineup Items\**

Stab. Trim .....Set for Takeoff  
Flaps .....Set for Takeoff  
G3X, GTN, COM, FD .....As required  
Fuel Pump.....Check ON  
Lights .....As required  
Mixture .....RICH  
Cabin Doors & Windows.....Closed & Locked

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**NORMAL TAKEOFF**

Flaps .....UP  
Carb Heat..... COLD  
Fuel Pump.....ON  
Throttle ..... Full OPEN/2400 RPM  
Elevator .....Lift nose at 60-65KTS  
Climb Spd.....90KTS

**SHORT FIELD TAKEOFF**

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

**CLIMB**

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

**CRUISE**

Power .....Set for Cruise  
Mixture.....LEAN  
Lights.....As required

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**DESCENT**

Carb Heat .....As required  
Mixture .....Enrich as required  
Flaps.....As required<102KTS

**BEFORE LANDING**

Seats and Harnesses .....Check 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**

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

**SHUTDOWN - SECURING**

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

\*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'  
Height .....7.2'  
Fuel.....2 x 38.5GAL (72GAL usable)  
Oil.....9-12QTS (12QTS capacity)

**WEIGHTS**

Useful Load .....1143 lbs  
Max Ramp.....3011 lbs  
Max T/O.....3000 lbs  
Max LDG .....3000 lbs  
Max Baggage ..... 200 lbs

**SPEEDS**

Va .....124KTS (3000 lbs)  
Vfe .....102KTS  
Vno .....137KTS  
Vne .....173KTS  
Vy ..... 85KTS  
Vx ..... 73KTS  
Best Glide [Flaps UP] ..... 85KTS – 3000 lbs  
Max Dem'strd X-wind ..... 17KTS

**LIMITATIONS**

Service ceiling .....17,500FT  
No aerobatics, spins, bank >60°, pitch >30°  
Baggage .....200LBS  
Flaps.....T/O: 0°-25°, LDG: 0°-40°  
Pre-Heat Temp.....32°F (2hrs prior)

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