

PREFLIGHT

INTERIOR

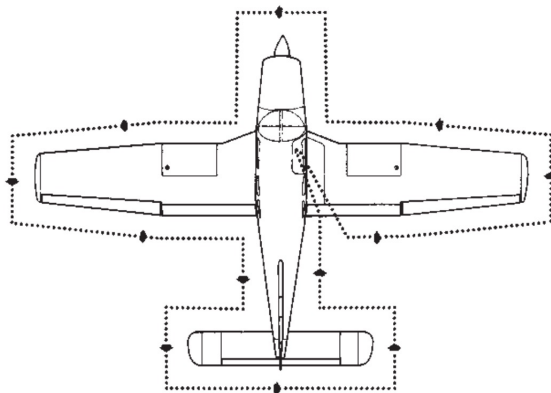
- Control Lock..... Remove
- Avionics Master Switch OFF
- Master Switch..... ON
- Fuel Selector Valve Desired Tank
- Ignition Key Out
- Tach Check/Record
- Exterior Lights / Pitot Heat Check
- Stall Warning Operation Check horn
- Master Switch..... OFF
- Flaps Check operation
- Pitot/Static System Drain

EXTERIOR

- Tie Downs Disconnect
- Control Surfaces Check free and secure
- Right Aileron..... Check secure/condition
- Tires and Brakes..... 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, oil leaks)
- Landing Lights Check
- Nose Strut & Tire Check
(inflation & condition)
- Oil Dipstick..... Check qty
(9-12 qts & condition)
- Left Wing Same as right plus:
Pitot Cover..... Remove
Stall Warning Operation..... Check free
- Static Ports (Left)..... Check
- Empennage..... Check
- Static Ports (Right) Check

Note: Use only clean microfiber towels on glass



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 ¼ travel
 - Carb Heat COLD
 - Primer..... As required [~8 strokes]/LOCK
 - 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
 - Mixture..... (Consider) LEAN
 - Avionics Master ON
 - GTN Database..... Check/Continue
 - Voltage..... Check in EDM
 - Fuel Qty..... Check/Set in EDM

BEFORE TAXI

- Weather Obtain
- GTN, COM Set and Check
- Exterior Lights As required
- Brakes..... Roll forward/Test

BEFORE TAKEOFF

- Autopilot..... Engage
- Flight Controls..... Check/Override
- Autopilot DISC Button Press
- Flight Director (FD) OFF
- Flight Controls..... Free & Correct
- Fuel Selector..... Proper 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
- GTN, COM, FD As required
- Throttle Friction Lock Adjust
- Lights As required
- Mixture RICH
- Cabin Doors & Windows..... Closed & Locked

NORMAL TAKEOFF

FlapsUP
Carb Heat COLD
Fuel Pump.....ON
Throttle Full OPEN/2400 RPM
ElevatorLift nose at 60-65KTS
Climb Spd.....100KTS

SHORT FIELD TAKEOFF

Flaps.....25°
Carb HeatCOLD
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

Fuel Pump OFF
Power 23"/2400 RPM
Airspeed (clear of obstacles)..... 100KTS
Mixture in Climb....RICH<5000', LEAN above

CRUISE

PowerSet for Cruise
Mixture.....LEAN
LightsAs required

DESCENT

Carb HeatIf 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.

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 SwitchOFF
Mixture IDLE CUT OFF
Ignition SwitchOFF (remove key)
TachCheck/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?

PIPER PA28-236

EngineLycoming 6cyl.
O540-J3A5D 235 HP
Wingspan.....35.4'
Length.....24.7'
Height.....7.2'
Fuel.....2 x 38.5GAL (72GAL usable)
Oil9-12QTS (12QTS capacity)

WEIGHTS

Useful Load 1143LBS
Max Ramp3011LBS
Max T/O.....3000LBS
Max LDG3000LBS
Max Baggage 200LBS

SPEEDS

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

LIMITATIONS

Service ceiling 17,500FT
No aerobatics, spins, bank >60°, pitch >30°
Baggage200LBS
Flaps.....T/O: 0°-25°, LDG: 0°-40°
Pre-Heat Temp..... 32°F (2hrs prior)