

PREFLIGHT INSPECTION
INTERIOR INSPECTION

1. Hobbs / Tach TimesRECORDED
2. Documents (AROW)CHECKED
3. Circuit BreakersCHECKED IN
4. Carb HeatOFF
5. All Electrical SwitchesOFF
6. Throttle/MixtureIDLE/CUTOFF
7. Ignition SwitchOFF/KEY ON DASH
8. Master SwitchON
 - a. Fuel QuantityCHECKED
 - b. Lights / Pitot HtCHECKED
 - c. Stall WarningCHECKED
9. Master SwitchOFF
10. Fuel Selector ValveLOWEST TANK
11. Fire Ext/Safety EquipAS REQ
12. Empty SeatsSEAT BELTS FASTENED
13. WindscreenCHECKED
14. FlapsEXTENDED

EXTERIOR INSPECTION

1. Right Wing
 - a. Flaps / AileronCHECKED
 - b. Fuel QuantityVERIFIED
 - c. Fuel SumpDRAINED
 - d. Wing VentCHECKED
 - e. Gear/BrakesCHECKED
 - f. Mount Strut (4.5")CHECKED
 - g. Tire Pres (24 PSI)CHECKED
2. Nose / Engine
 - a. OilCHECKED MIN 6 QTS
 - b. Engine CowlingSECURED
 - c. Prop / SpinnerCHECKED
 - d. Alt Belt / FlywheelCHECKED
 - e. Tire Pres (24 PSI)CHECKED
 - f. Nose Strut (3.25")CHECKED
 - g. Air InletsCLEAR
 - h. Brake FluidCHECKED
 - i. Engine CowlingSECURED
 - j. Fuel SumpDRAINED
3. Left WingPERFORM RIGHT WING
 - a. Pitot MastCHECKED
4. Left Fuselage / AntennasCHECKED
5. Empennage Flight SurfacesCHECKED
6. Right Fuselage / AntennasCHECKED
7. UnderbellyCHECKED
8. Baggage CompartmentLOCKED

BEFORE STARTING ENGINE

1. Passenger BriefCOMPLETE
2. FlapsRETRACTED/UP
3. Seats/Belts/HarnessesFASTENED
4. Anti Collision / Beacon LtON
5. BrakesHOLD

STARTING ENGINE

1. COLD START ONLY: Prime2 STROKES
2. MixtureFULL RICH
3. Master SwitchON
4. Fuel PumpON / CHECK PRESSURE
5. ThrottlePUMP 2X / OPEN ¼"
6. Propeller AreaCLEAR
7. Ignition SwitchSTART
8. Throttle1000 RPM
9. Oil PressureCHECK
10. MixtureLEAN
11. Fuel PumpOFF

BEFORE TAXI

1. Radios/AvionicsON/SET
2. TransponderSET SQK / ALT MODE
3. Flight InstrumentsCHECKED
4. Nav/Taxi LightsON
5. BrakesRELEASED

TAXI

1. BrakesCHECKED
2. Flight InstrumentsCHECKED

V SPEEDS (MPH)		
Stall, Flaps DOWN	V _{SO}	61
Stall, Flaps UP	V _{S1}	68
Rotation	V _R	60
Best Angle	V _X	74
Best Rate	V _Y	87
Best Glide	V _G	87
Max Flap Extend	V _{FE}	115
Maneuvering	V _A	124
Max Structural Cruise	V _{NO}	140
Never Exceed	V _{NE}	171
Max Demo Crosswind (KTS)		17 KT

Source: PA28-181 POH

RUN-UP

1. Flight Controls.....FREE / CORRECT
2. Fuel SelectorSWITCH TANK
3. PrimerIN AND LOCKED
4. MixtureFULL RICH
5. Throttle2000 RPM
 - a. Mags (175↓/50 Δ)CHECKED
 - b. Carb HeatCHECKED/OFF
 - c. Vacuum (4.9-5.1") CHECKED
 - d. AmmeterCHECKED
 - e. Engine InstmtsGREEN ARC
6. ThrottleCHECK IDLE / 1000 RPM
7. Throttle Friction LockSET
8. MixtureLEAN
9. Rados/Avionics/NavSET
10. Departure/Crew BriefCOMPLETED

*This will be a NORM/SHORT/SOFT FLD takeoff
 Takeoff distance is ___ and our go/no-point is ___
 We will rotate at ___ and climb at V_x/V_y of ___
 For any malfunction prior to rotate announce
 "ABORT 3X", reduce pwr to idle and stop ahead.
 Engine failure blw 1000A- set V_G and land ahead.
 Engine failure abv 1000A- set V_G and rtn to land.
 (You/I) will fly the emergency as PIC.
 We will depart (departure instructions).
 (You/I) have the flight controls. Your questions.*

BEFORE TAKEOFF (Holding Short of Rwy)

1. Door / WindowSECURED
2. TransponderSET/ALT
3. Carb HeatOFF
4. Landing Light / Pitot HtON/AS REQ
5. Fuel PumpON
6. Mixture RICH
7. PrimerIN / LOCKED
8. Flaps0 NORM // 25 SHORT/SOFT
9. Trim (Rudder/Elevator)SET
10. InstrumentsCHECKED

TAKEOFF

1. Throttle (3 SECONDS)FULL
2. Engine InstrumentsCHECKED
3. V_R / V_X / V_Y60 / 74 / 87 MPH

CLIMB (>500' AGL)

1. FlapsUP
2. InstrumentsCHECKED
3. Fuel PumpOFF / CHECK PRESSURE

CRUISE

1. PowerSET (per AFM/POH)
2. MixtureLEAN
3. Engine InstrumentsCHECKED
4. Landing LightAS REQ

PRE-MANEUVER

1. Clearing TurnsCOMPLETED
2. Fuel PumpON
3. GasFULLEST TANK
4. MixtureFULL RICH
5. Landing LightON

DESCENT

1. Fuel Selector ValvePROPER TANK
2. Power/Carb HeatAS REQ
3. Destination Info / WXRECEIVED
4. Approach BriefingCOMPLETED
5. InstrumentsCHECKED

BEFORE LANDING

1. Fuel PumpON
2. PrimerIN / LOCKED
3. MixtureFULL RICH
4. Landing LightON
5. Seats/Belts/HarnessesFASTENED

AFTER LANDING (Clear of Runway)

1. FlapsUP
2. Fuel PumpOFF
3. Carb HeatOFF
4. MixtureLEAN
5. Landing Light / Pitot HeatOFF

ENGINE SHUTDOWN

1. Radios/AvionicsOFF
2. Throttle1200 (10 sec) / 1000 RPM
3. MixtureIDLE CUTOFF
4. Ignition SwitchOFF / KEY ON DASH
5. Master SwitchOFF

SECURING

1. Hobbs / Tach TimesRECORDED
2. CabinCLEAN
3. Pitot Cover/Cowl PlugsINSTALLED
4. Chocks/Tie Downs/CoverINSTALLED
5. Postflight InspectionCOMPLETED
6. Acft DiscrepRECORDED/NOTIFIED