

FREQUENCIES

BED
ATIS124.6
GROUND121.7
TOWER118.5
BOS APP124.4
Signature130.8
 or 781-274-0010

OWD

ATIS119.95
GROUND121.8
TOWER126.0
BOS APP124.1

ASH

ATIS125.1
GROUND121.8
TOWER133.2
BOS APP124.9

Practice area-ALL123.5
Emergency (guard)121.5

PREFLIGHT

COCKPIT SAFETY CHECK

Magnetos ... OFF, KEYS OUT
Mixture CUTOFF
Throttle CLOSED

Hobbs & Tach RECORD
 Documents (AROW) CHECK
 Flight controls RELEASE

Emergency Gear

Lever..UP-CONFIRMED

Gear selector..... DOWN

Trims X 2 TAKEOFF
 Parking brake AS REQUIRED
 Avionics/Radio master OFF
 Electric switches OFF
 Beacon ON
 Master switch ON

Gear lights 3 GREEN

Fuel gauges CHECK
 Annunciator panel TEST
 Aux vacuum pump if night or IMC. CHECK
 Pitot heat if IMC ON, CHECK, OFF
 Exterior lights as appropriate for vis conditions ON, CHECK, OFF
 Stall horn CHECK
 Master switch OFF
 Altimeter FIELD ELEVATION
 Magnetic compass CHECK
 Pitot & static drains DRAIN
 Flight controls CHECK
 Flaps EXTEND
 Fire extinguisher CHECK
 Windows Clean CHECK

RIGHT WING

Flap CHECK
 Aileron CHECK
 Wingtip top & bottom CHECK
 Tie down/chock REMOVE
 Fuel tank vent CHECK
 Fuel tank sump DRAIN
 Fuel tank quantity CHECK
 Fuel cap & vent CHECK
 Main gear CHECK
 Fresh air inlet CHECK

NOSE

Cowling CHECK
 Oil (max 6, min 5.5) CHECK
 Propeller & spinner CHECK
 Alternator belt CHECK
 Air inlets CHECK
 Nose gear CHECK
 Chock REMOVE
 Fuel strainer DRAIN & NO DRIPS

LEFT WING

Fresh air inlet CHECK
 Main gear CHECK
 Fuel tank vent CHECK
 Fuel tank quantity DRAIN
 Fuel tank sump DRAIN & NO DRIPS
 Fuel cap & vent CHECK
 Tie down/chock REMOVE
 Pitot Tube CHECK
 Wingtip CHECK
 Aileron CHECK
 Flap CHECK

LEFT FUSELAGE

Static port CHECK
 Antennas CHECK
 Fresh air inlet CHECK

EMPENNAGE

Stabilator CHECK & CLEAR
 Trim tab CHECK & CLEAR
 Rudder CHECK & CLEAR
 Antennas CHECK
 Tie down REMOVE

RIGHT FUSELAGE

Static port CHECK
 Antennas CHECK
 Baggage area SECURE
 Baggage door Unlocked & LATCHED

BEFORE ENGINE START

Tail Lock.... IN BAGGAGE OR COCKPIT
 Flaps RETRACT
 Passenger briefing COMPLETE
 Seats & seat belts SECURE
 Fuel selector .. LOWEST TANK or EITHER TANK
 Circuit breakers CHECK
 Alternate air OFF
 Strobes ON
 Propeller MAX RPM
 Brakes SET & HOLD

ENGINE START

Throttle ½" OPEN
 Master & Alt switches ON
 Fuel pump ON
 Mixture if cold RICH 3-5 SECS
 Mixture CUT OFF
Propeller area..... CLEAR
 Starter ENGAGE
 Mixture RICH
 Throttle.. 800 RPM (No Higher Than 1000)
 Oil pressure CHECK
 Fuel pump OFF
 Mixture LEAN

BEFORE TAXI

Avionics/Radio master ON
 Transponder (1200 VFR) ALT
 Radios SET
 ATIS CHECK
 Flight instruments SET
 Lights AS APPROPRIATE
 Navigation SET
 Radio CLNC, GROUND/CTAF
 #2 Radio MONITOR 121.5

TAXI

Parking Brake RELEASE
 Brakes CHECK
 Flight instruments CHECK

ENGINE RUNUP

Brakes SET & HOLD
 Oil Temp IN THE GREEN
 Fuel selector OTHER TANK
 Mixture (below 5000') RICH
 Throttle 2000 RPM
 Mags (drop 175, diff 50) CHECK
 Vacuum (4.8-5.1") CHECK
 Engine gauges CHECK
 Ammeter CHARGING LTS & pitot on/off
 Annunciator panel TEST
 Alternate air CHECK
 Propeller (max 500 drop) CYCLE 3x
 Throttle (min 500 RPM) IDLE
 Throttle 1000 RPM
 Flight controls CHECK

BEFORE TAKEOFF

Fuel pump ON
 Propeller MAX RPM
 Pitot heat AS REQUIRED
 Flight instruments CHECK
 Trims X 2 TAKEOFF
 Flaps NORMAL 0°, SHORT/SHORT 25°
 Seats & seat belts SECURE
 Door & window SECURE
 Lights ON
 Takeoff briefing COMPLETE
 Air conditioning OFF
 Radio TOWER/CTAF

TAKEOFF

Mixture (below 5000') RICH
 Throttle FULL
 Power CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 0°/25° 71/59 KIAS

CLIMB

Gear
 Flaps...RETRACT AT SAFE SPEED (60KIAS)
 Airspeed (cruise climb).....104KIAS/500FPM
 Fuel pump OFF
 Fuel pressure CHECK

CRUISE

Power & Propeller AS REQUIRED
 Mixture..... LEAN AS REQUIRED

FUEL TANK SWITCH

Fuel pump ON
 Fuel selector DESIRED TANK
 Fuel pressure CHECK
 Fuel pump OFF

DESCENT

Power & Propeller AS REQUIRED
 Mixture..... AS REQUIRED
 Seats & seat belts..UPRIGHT & SECURE

APPROACH & LANDING

Downwind.....90 KTS
 Air conditioning OFF
 Fuel pump ON
 Fuel selector FULLEST TANK
 Mixture (below 5000') RICH
 Propeller MAX RPM
 Gear (<129 KIAS) DOWN
 Flaps (<103 KIAS) AS REQUIRED
 Landing (0°) 78 KIAS
 Landing (40°) 72 KIAS

AFTER LANDING

Radio GROUND/CTAF
 RPM.....1000
 Flaps.....RETRACT
 Fuel pump OFF
 Mixture..... LEAN
 Lights.....AS REQUIRED
 Pitot Heat.....OFF

SHUTDOWN

Call for fuel AS REQUIRED
 Air conditioning OFF
 Avionics/Radio master OFF
 Throttle IDLE
 Mixture.....CUTOFF

WHEN PROP STOPS

Magnetos..... OFF, KEY OUT
 Electrical switches..... OFF
 Master & Alt switches OFF
 Hobbs & tach RECORD
 Trims x 2.....SET FOR TAKEOFF
 Flight controls SECURE
 Tie downs SECURE
 Cover ON

POSTFLIGHT WALK AROUND**SPEEDS**

Vg (gear up, 0°, prop low)..... 79 KIAS
 glide distance approx 1 NM per 700'
 Va (2750/1865 lbs) 118/96 KIAS
 Vfe 103 KIAS
 Vlo (retract, extend) 107,129 KIAS
 Vle.....129 KIAS
 Vy (gear down,0°) 78 KIAS
 Vy (gear up,0°) 90 KIAS
 Vx (gear down,25°) 62 KIAS
 Vx (gear down,0°) 72 KIAS
 Vx (gear up,0°) 78 KIAS
 Vs0 55 KIAS
 Vs1 60 KIAS

SPECS

Usable fuel tabs/full 50g/72g
 Taxi fuel 1.3g
 Climb fuel (75% power) 12.7 GPH
 Crosswind..... 17 KTS
 Maneuvers.....2500 RPM/20"/100 KTS
 Cruise 75%.....2500 RPM, 12.7 GPH
 (leaned)
 3000' 25.3", 133 KTAS
 6000' 24.3", 135 KTAS

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EMERGENCIES NOTE: NOT ALL EPs are here. Check POH for additional procedures

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
 MixtureCUTOFF
 Throttle OPEN
 Fuel pump.....OFF
 Fuel selector.....OFF

MANUAL GEAR EXTENSION

Master switch..... CHECK ON
 Alternator switch CHECK ON
 Circuit breakers..... CHECK
 Nav light switch (daytime)..... OFF
 Gear bulbs..... CHECK
 Airspeed..... BELOW 87 KIAS
 Gear switchDOWN
 Emergency gear leverHOLD DOWN
 Yaw with rudder AS REQUIRED
 Reduce speed AS REQUIRED
 Gear switch CYCLE AS REQUIRED

ENGINE POWER LOSS

Fuel selector FULLEST TANK
 Fuel pumpON
 Mixture RICH
 Alternate air OPEN
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 79 KIAS
 Propeller MIN RPM
 Landing areaIDENTIFY
 Radio MAYDAY
 Transponder7700
 Final approach (40°)..... 72 KIAS
 Gear AS REQUIRED
 Magnetos OFF
 Master switch..... OFF
 Alternator switch OFF
 Fuel selector OFF
 MixtureCUTOFF
 Seatbelts.....SECURE
 DoorUNLATCH

ENGINE ROUGHNESS

Mixture ADJUST TO SMOOTHEST
 Alternate air OPEN
 Fuel pumpON
 Fuel selectorSWITCH TANKS
 Engine gauges CHECK
 Magnetos CHECK SMOOTHEST
 Mixture RICH
 Land AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

Fuel selector OFF
 Throttle..... CLOSED
 MixtureCUTOFF
 Fuel pump OFF
 Heater & defroster OFF
 SpeedINCREASE TO EXTINGUISH
 Land IMMEDIATELY

ELECTRICAL (CABIN) FIRE

Master switch..... OFF
 Alternator switch OFF
 Vents OPEN
 Heater & defroster OFF
 Fire extinguisher AS NECESSARY
 Land AS SOON AS PRACTICAL