

FREQUENCIES

BED

ATIS124.6

GROUND121.7

TOWER118.5

BOS APP124.4

Signature130.8

.....or 781-274-0010

OWD

ATIS.....119.95

GROUND121.8

TOWER126.0

BOS APP124.1

ASH

ATIS.....125.1

GROUND121.8

TOWER133.2

BOS APP124.9

Practice area-ALL 123.5

Emergency (guard)121.5

COCKPIT SAFETY CHECK

MagnetosOFF, KEYS OUT

Mixture CUTOFF

Throttle CLOSED

PREFLIGHT

Hobbs & tach.....RECORD

Documents (AROW).....CHECK

Flight control lock.....REMOVE

Parking brake AS REQUIRED

Avionics master OFF

Electrical switches OFF

Master switch ON

Fuel gaugesCHECK

Low fuel annunciators ABSENT

Annunciator panel TEST

Avionics..... ON, CHECK FAN,OFF

Pitot heat.....ON, CHECK,OFF

Exterior lights.....ON, CHECK,OFF

Flaps..... EXTEND

Master switch OFF

Altimeter FIELD ELEVATION

Magnetic compass CHECK

Fuel selectorBOTH

Alternate static CHECK THEN OFF

Fire extinguisherCHECK

Windows.....CHECK

EMPENNAGE

General condition.....CHECK

Baggage area SECURE

Baggage door....Un-locked & LATCHED

Autopilot static port.....CHECK

Tie downREMOVE

Elevator CHECK & CLEAR

Trim tab CHECK & CLEAR

Rudder..... CHECK & CLEAR

AntennasCHECK

RIGHT WING

General condition CHECK & CLEAR

FlapCHECK

Aileron & CounterweightsCHECK

WingtipCHECK

Tie down/chock.....REMOVE

Main gearCHECK

Tank sumps (5).....DRAIN & NO DRIPS

Fuel tankCHECK

Fuel cap & VentCHECK

Fresh air inletCHECK

NOSE

General condition & leaksCHECK

Fuel drains (3).....DRAIN & NO DRIPS

Oil (max 6,min 5.5).....CHECK

Propeller & spinner.....CHECK

Alternator beltCHECK

Air inlets.....CHECK

Air filter.....CHECK

Nose gearCHECK

ChockREMOVE

Static portCHECK

LEFT WING

General condition CHECK & CLEAR

Fresh air inletCHECK

Stall horn.....CHECK

Pitot.....CHECK

Tie down/chock.....REMOVE

Fuel tank ventCHECK

Tank sumps (5).....DRAIN & NO DRIPS

Fuel tankCHECK

Fuel cap & VentCHECK

WingtipCHECK

Aileron & CounterweightsCHECK

FlapCHECK

Main gearCHECK

BEFORE ENGINE START

Tail Lock.....IN COCKPIT

Passenger briefing.....COMPLETE

Seats & seat belts SECURE

Doors.....CLOSED & LOCKED

Circuit breakersCHECK

Electrical switches OFF

Avionics..... OFF

Fuel selector..... BOTH

Fuel shutoff.....IN/ON

Brakes SET & HOLD

ENGINE START

Mixture..... CUTOFF

Throttle ¼" OPEN

Master switch ON

Beacon ON

Prime if COLD:

- Fuel pump ON

- Mixture RICH 3-5 SECS,CUTOFF

- Fuel pump OFF

Propeller area CLEAR

Starter ENGAGE

Mixture..... RICH

Throttle..800 RPM (No Higher Than 1000)

Oil pressure.....CHECK

Mixture..... LEAN

BEFORE TAXI

Flaps.....RETRACT

Avionics..... ON

Transponder (1200 VFR) ALT

Radios..... SET

ATISCHECK

Flight instruments SET

Lights..... AS APPROPRIATE

Navigation SET

Radio CLNC,GROUND/CTAF

TAXI

Parking

Brake.....RELEASED

Brakes.....CHECK

Flight instrumentsCHECK

ENGINE RUNUP

Brakes..... SET & HOLD

Fuel selector..... BOTH

Mixture (below 3000') RICH

Throttle 1800 RPM

Mags (drop 150,diff 50).....CHECK

VacuumCHECK

Engine indicators.....CHECK

Ammeters & voltmeters. CHARGING LTS

& pitot on/off

Annunciators ABSENT

Throttle IDLE

Throttle 1000 RPM

BEFORE TAKEOFF

Pitot heat..... AS REQUIRED

Flight instrumentsCHECK

Electric trimCHECK

Autopilot..... OFF

Trim..... TAKEOFF

Flight controls.....CHECK

Flaps.... Normal 0°-10°, Short/Soft 10°

Seats & seat belts SECURE

Doors & windows SECURE

Lights..... ON

Takeoff briefing..... COMPLETE

Radio TOWER/CTAF

#2 Radio MONITOR 121.5

TAKEOFF

Mixture (below 3000') RICH
 Throttle FULL
 Power (2300-2400 RPM=STATIC) . CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 55 KIAS

CLIMB

Flaps...RETRACT AT SAFE SPEED (60KIAS)
 Airspeed (cruise climb)80 KIAS/500'/MIN

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED

DESCENT

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

APPROACH & LANDING

Downwind 90 KTS
 Cabin power OFF
 Fuel selector BOTH
 Mixture (below 3000') RICH
 Flaps (110/85 KIAS) AS REQUIRED
 Landing (0°) 65-75 KIAS
 Landing (30°) 60-70 KIAS

AFTER LANDING

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

SHUTDOWN

Call for fuel AS REQUIRED
 Avionics OFF
 Throttle IDLE
 Mixture CUTOFF

WHEN PROP STOPS

Electrical switches OFF
 Magnetos OFF, KEY OUT
 Master switch OFF
 Hobbs & tach RECORD
 Flight control lock INSTALL
 Fuel selector LEFT or RIGHT
 Tie downs SECURE
 Cover ON

SPEEDS

Vg (0° flaps) 68 KIAS
 glide distance approx 1 NM per 600'
 Va (2550/1900 lbs) 105/90 KIAS
 Vfe (10°/>10°) 110/85 KIAS
 Vy (0°,sea level-10K') 74-72 KIAS
 Vx (0°,sea level-10K') 62-67 KIAS
 Vx (10°) 56 KIAS
 Vs0 40 KIAS
 Vs1 48 KIAS

SPECS

Usable fuel tabs/full 35g/53g
 Taxi fuel 1.4g
 Climb fuel 13.0 GPH
 Crosswind 15 KTS
 Maneuvers 2100 RPM/90 KTS
 Cruise 3000'@71%. 2500 RPM/115 KTS
 Cruise GPH@71% (leaned) 9.7

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

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
 Mixture CUTOFF
 Throttle FULL OPEN
 Fuel shutoff OFF
 Fuel pump OFF
 Magnetos OFF
 Fire
 Extinguisher ACTIVATE
 Master switches OFF

EVACUATE AIRCRAFT**ENGINE POWER LOSS**

Trim for best glide 68 KIAS
 Fuel shutoff ON
 Fuel selector BOTH
 Fuel pump ON
 Mixture RICH
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 68 KIAS
 Landing area IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (30°) 61 KIAS
 Mixture CUTOFF
 Fuel shutoff OFF
 Magnetos OFF
 Master switches OFF
 Seat belts SECURE
 Doors UNLATCH

ENGINE FIRE IN FLIGHT

Mixture CUTOFF
 Fuel shutoff OFF
 Fuel pump OFF
 Throttle CLOSED
 Master switches OFF
 Cabin heat & air OFF
 Speed INCREASE TO EXTINGUISH
 Land IMMEDIATELY

ELECTRICAL FIRE

Master switches OFF
 Vents,cabin heat & air CLOSED
 Fire extinguisher AS NECESSARY
 Avionics OFF
 Electrical switches OFF
 Vents (when fire extinguished) OPEN
 Land AS SOON AS PRACTICAL