

FREQUENCIES

BED
ATIS124.6
GROUND121.7
TOWER118.5
BOS APP124.4
Signature 130.8
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-ALL 123.5
Emergency (guard) 121.5

PREFLIGHT

COCKPIT SAFETY CHECK

Magnetos OFF, KEY OUT
Mixture CUTOFF
Throttle CLOSED

Documents (AROW) and G-1000 reference guide.....ON-BOARD
 Flight control lock REMOVE
 Parking brakeAS REQUIRED
 Avionics 1 & 2OFF
 Electrical switchesOFF
 Beacon ON
 Master switches ON
 Hobbs & Tach RECORD
 Fuel gauges CHECK
 Low fuel annunciators.....ABSENT
 Oil pressure annunciator SHOWN
 Low vacuum annunciator SHOWN
 Low volts annunciator..... SHOWN
 Avionics 1 ON, CHECK FAN, OFF
 Avionics 2 ON, CHECK FAN, OFF
 Pitot heat..... ON, CHECK, OFF
 Exterior lights..... ON, CHECK, OFF
 Flaps EXTEND
 Altimeter PFD & Autopilot FIELD ELEVATION
 Master switch (Alt & Bat)OFF
 Magnetic compass..... CHECK
 Fuel selector..... BOTH
 Alternate staticOFF
 Fire extinguisher CHECK
 Windows CHECK

EMPENNAGE

General condition..... CHECK
 Baggage doorUnlocked & LATCHED
 Autopilot static port..... CHECK
 Tie down..... REMOVE

Elevator & Counter Wts. CHECK & CLEAR
 Trim tab..... CHECK & CLEAR
 Rudder..... CHECK & CLEAR
 Antennas..... CHECK

RIGHT WING

General condition CHECK & CLEAR
 Flap CHECK
 Aileron & Weights CHECK
 Wingtip CHECK
 Tie down/chock REMOVE
 Fuel tank sumps (5).DRAIN & NO DRIPS
 Fuel tank & quantity CHECK
 Fuel cap & Vent..... CHECK
 Fresh air inlet CHECK
 Main gear & Brake CHECK
 Tie down/chock REMOVE

NOSE

General condition & leaks CHECK
 Fuel drains (3) DRAIN & NO DRIPS
 Oil (max 6, min 5.5) CHECK
 Propeller & spinner CHECK
 Alternator belt..... CHECK
 Air inlets CHECK
 Air filter CHECK
 Nose gear..... CHECK
 Chock REMOVE
 Static port CHECK

LEFT WING

General condition CHECK & CLEAR
 Fresh air inlet CHECK
 Stall horn CHECK
 Pitot Tube..... CHECK
 Fuel tank vent..... CHECK
 Fuel tank sumps(5) DRAIN & NO DRIPS
 Fuel tank & Quantity CHECK
 Fuel cap & Vent..... CHECK
 Wingtip CHECK
 Aileron & Weights CHECK
 Flap CHECK
 Main gear & Brake CHECK
 Tie down/chock REMOVE

BEFORE ENGINE START

Tail LockIN COCKPIT
 Passenger briefing COMPLETE
 Seats & seat belts..... SECURE
 Circuit breakers..... CHECK
 Electrical switches OFF
 Avionics 1 & 2 OFF
 Fuel selector BOTH
 Fuel shutoff ON
 Brakes SET & HOLD

ENGINE START

MixtureCUTOFF
 Throttle..... ¼" OPEN
 Standby batt.....TEST 20 SECS, ARM
 Engine indicatorsCHECK NO X's
 E BUS volts..... MIN 24v

M BUS volts MAX 1.5v
 Batt S amps DISCHARGE
 Standby batt annunciator SHOWN
 Master switches ON
 Propeller area CLEAR
 Prime if COLD:
 - Fuel pumpON
 - Mixture..... RICH 3-5 SECS,CUTOFF
 - Fuel pumpOFF
 Propeller area CLEAR
 Starter ENGAGE
 Mixture..... RICH
 Throttle..800 RPM (No Higher Than 1000)
 Oil pressure CHECK
 M & S BATTPOSITIVE
 Low volts annunciator.....ABSENT
 Mixture LEAN

BEFORE TAXI

Flaps RETRACT
 Avionics 1 & 2 ON
 Fuel quantitySET
 Transponder (1200 VFR)SET
 RadiosSET
 ATIS CHECK
 Flight instrumentsSET
 Autopilot (as per POH).....CHECK
 Lights..... AS APPROPRIATE
 Navigation & TransponderSET
 Radio CLNC,GROUND/CTAF

TAXI

Parking Brake.....RELEASE
 Brakes..... CHECK
 Flight instruments CHECK

ENGINE RUNUP

Brakes.....SET & HOLD
 Fuel selector..... BOTH
 Mixture (below 3000')..... RICH
 Oil Temp.....IN THE GREEN
 Throttle 1800 RPM
 Mags (drop 150, diff 50) CHECK
 Vacuum (4.5-5.5") CHECK
 Engine indicators CHECK
 Ammeters & voltmeters CHECK
 AnnunciatorsABSENT
 Throttle IDLE
 Throttle 1000 RPM

BEFORE TAKEOFF

Pitot heat..... AS REQUIRED
 Flight instruments CHECK
 Electric trim & Cut Out..... CHECK
 Flight controls..... CHECK
 Autopilot.....OFF
 Cabin power.....OFF
 Trim..... TAKEOFF
 Flaps..... Normal 0°-10°,Short/Soft 10°
 Seats & seat beltsSECURE
 Doors & windows SECURE
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF
 #2 Radio.....MONITOR 121.5
 LightsWHEN CLRD FOR TAKEOFF

TAKEOFF

Mixture (below 3000') RICH
 Throttle FULL
 Power (**2300-2400 RPM=Static**) CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 55 KIAS
 Short TO (10° flaps) 56 KIAS

CLIMB

Flaps retract slowly >60KIAS
 Airspeed (cruise climb) 80KIAS
 KIAS/500'/MIN

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED

DESCENT

Fuel selector BOTH
 Power AS REQUIRED
 Mixture AS REQUIRED
 ATIS OBTAIN
 Altimeters SET
 Seats & seat belts. UPRIGHT & SECURE
 Cabin power (If equipped) OFF

APPROACH & LANDING

Downwind 90 KTS
 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
 Pitot Heat OFF
 Lights AS REQUIRED
 (Fuel pump if used OFF)
 Mixture LEAN
 Transponder 1200

SHUTDOWN

Call for fuel AS REQUIRED
 Avionics 1 & 2 OFF
 Throttle IDLE
 Mixture CUTOFF

WHEN PROP STOPS

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

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

FREQUENCIES

BED
ATIS 124.6
GROUND 121.7
TOWER 118.5
BOS APP 124.4
Signature 130.8
 or 781-274-0010

OWD

ATIS 119.95
GROUND 121.8
TOWER 126.0
BOS APP 124.1

ASH

ATIS 125.1
GROUND 121.8
TOWER 133.2
BOS APP 124.9

Practice area-ALL 123.5

Emergency (guard) 121.5

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
Standby batt OFF
Master switches OFF
Fire Extinguisher ACTIVATE

ENGINE POWER LOSS

Airspeed (0°/ >0°) 75/70 KIAS
 Landing area IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (30°) 70 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
 Standby batt 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

Standby batt OFF
 Master switches OFF
 Vents, cabin heat & air CLOSED
 Fire extinguisher AS NECESSARY
 Avionics 1 & 2 OFF
 Electrical switches

LANDING W/O ELEVATOR CONTROL

Trim 65 KIAS
 Flaps 20°
 Power USE ONLY POWER TO CLIMB/DESCEND