

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

COCKPIT SAFETY CHECK

Magnetos OFF, KEY OUT
Mixture CUTOFF
Throttle CLOSED

PREFLIGHT

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

EMPENNAGE

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

Elevator..... 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 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..... 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 Lock IN 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

Mixture..... CUTOFF
Throttle 1/4" OPEN
Standby batt TEST 20 SECS, ARM
Engine indicators..... CHECK 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 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
M & S BATT POSITIVE
Low volts annunciator ABSENT
Mixture..... LEAN

BEFORE TAXI

Flaps..... RETRACT
Avionics 1 & 2..... ON
Fuel quantity SET
Transponder (1200 VFR) SET
Radios..... SET
ATIS CHECK
Flight instruments SET
Autopilot..... CHECK
Lights..... AS APPROPRIATE
Navigation & Transponder..... SET
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
Annunciators ABSENT
Throttle IDLE
Throttle 1000 RPM

BEFORE TAKEOFF

Pitot heat..... AS REQUIRED
Flight instruments CHECK
Electric trim CHECK
Flight controls..... CHECK
Autopilot..... OFF
Cabin power..... OFF
Trim..... TAKEOFF
Flaps.... Normal 0°-10°, Short/Soft 10°
Seats & seat belts SECURE
Doors & windows SECURE
Lights..... ON

.....CONTINUED ON BACK.....

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
 Short TO (10° flaps) 56 KIAS

CLIMB

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

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED

DESCENT

Power AS REQUIRED
 Mixture AS REQUIRED
 ATIS OBTAIN
 Altimeters SET
 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
 (Fuel pump OFF)
 Mixture LEAN
 Lights AS REQUIRED
 Pitot Heat OFF

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

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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
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