

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, KEYS OUT**
Mixture.....**CUTOFF**
Throttle**CLOSED**

Hobbs & tachRECORD
 Documents (AROW) CHECK
 Flight controls RELEASE
 Parking brake AS REQUIRED
 Avionics/Radio master OFF
 Electrical switches OFF
 Master switch (UPPER PANEL) ON
 Fuel gauges CHECK
 Annunciator panel TEST
 Aux vacuum pump CHECK
 Pitot heat ON, CHECK, OFF
 Exterior lights (Upper Panel) . ON, CHECK, OFF
 Stall horn CHECK
 Annunciator Panel.....CHECK
 Master switch..... OFF
 AltimeterFIELD ELEVATION
 Magnetic compass CHECK
 Pitot & static drains DRAIN
 Flight controls CHECK
 Flaps EXTEND
 Fire extinguisher CHECK
 Windows CLEAN NO CRACKS

RIGHT WING

General conditionCHECK & CLEAR
 Flap CHECK
 Aileron CHECK
 Wingtip..... CHECK
 Tie down/chock REMOVE
 Fuel tank ventCHECK & CLEAR
 Fuel tank sump.....DRAIN & NO DRIPS
 Fuel tank CHECK QUANTITY
 Fuel cap & vent..... CHECK
 Main gear CHECK
 Fresh air inlet CHECK

NOSE

General condition & leaks CHECK
 Cowling SECURE
 Oil (max 6,min 5.5)..... CHECK
 Propeller & spinner..... CHECK
 Prop Lock (if installed) REMOVE
 Alternator belt CHECK
 Air inlets CHECK
 Nose gear CHECK
 Chock..... REMOVE
 Fuel StrainerDRAIN & NO DRIPS

LEFT WING

General condition CHECK
 Fresh air inletCHECK & CLEAR
 Main gear CHECK
 Fuel tank vent.....CHECK & CLEAR
 Fuel tank sump.....DRAIN & NO DRIPS
 Fuel tank CHECK QUANTITY
 Fuel cap & vent..... CHECK
 Tie down/chock REMOVE
 Pitot Tube 3 HolesCHECK & CLEAR
 Wingtip..... CHECK
 Aileron CHECK
 Flap CHECK

LEFT FUSELAGE

General condition CHECK
 Antennas CHECK
 Fresh air inletCHECK & CLEAR

EMPENNAGE

Stabilator..... CHECK
 Trim tab CHECK
 Rudder CHECK
 Antennas CHECK
 Tie down..... REMOVE

RIGHT FUSELAGE

General condition CHECK
 Antennas CHECK
 Baggage area SECURE
 Baggage door..... Unlocked & LATCHED

BEFORE ENGINE START

Tail Lock.....IN COCKPIT
 Flaps RETRACT
 Passenger briefing..... COMPLETE
 Seats & seat belts SECURE
 Alternate Static SourceOFF

Fuel selector .. LOWEST TANK or EITHER TANK
 Circuit breakers CHECK
 Strobes ON
 Carb heat OFF
 Brakes SET & HOLD

ENGINE START

Throttle..... ¼" COLD, ½" HOT
Master Switch..... **ON**
Alternator Switch **ON**
 Fuel pump(UPPER PANEL)..ON, Check Pressure
 Mixture RICH
 Prime (UPPER PANEL)..... **3-5 Seconds** MAX
 Propeller area CLEAR

LEFT MAG (Upper Panel)..... **ON**
Starter **ENGAGE**
RIGHT MAG (Upper Panel)..... **ON**

Throttle.. 800 RPM (No Higher Than 1000)
 Oil pressure CHECK
 Fuel pump OFF
 Mixture LEAN

BEFORE TAXI

Avionics/Radio master ON
 Autopilot TestsCHECK
 Transponder (1200 VFR or IFR code). ALT
 Radios SET
 ATIS CHECK
 Flight instruments SET
 Lights AS APPROPRIATE
 Navigation .. INPUT FLT PLAN GPS/VPR
 Radio CLNC, GROUND/CTAF
 #2 Radio..... MONITOR 121.5

TAXI

Parking BrakeRELEASE
 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 (4.8-5.2") CHECK
 Engine gauges CHECK
 Annunciator panel TEST
 Load meter... CHARGING LTS & pitot on/off
 Carb heat (max drop 75 RPM) ON
 Throttle (min 500 RPM) IDLE
 Carb heat OFF
 Throttle..... 1000 RPM
 Flight controls CHECK VISUALLY

BEFORE TAKEOFF

Fuel pump ON - CHECK PRESSURE
 Pitot heat AS REQUIRED
 Flight instruments CHECK
 Trims (Aileron & Rudder) TAKEOFF
 Flaps ... NORMAL 0°, SHORT/SOFT 25°
 Seats & seat belts..UPRIGHT & SECURE
 Door & window..... SECURE
 Lights ON
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF

TAKEOFF

Mixture (below 5000') RICH
 Throttle..... FULL
 Power (2240-2340 RPM=STATIC) . CHECK
 Engine gauges CHECK
 Airspeed..... CHECK
 Rotate (0°/25°)..... 60/55KIAS

CLIMB

Flaps...RETRACT AT SAFE SPEED (60KIAS)
 Airspeed (cruise climb)..... 87 KIAS
 - 500' per MINUTE
 Fuel pump OFF
 Fuel & Oil pressure CHECK

CRUISE

Power (POH) AS REQUIRED
 Mixture LEAN AS REQUIRED

FUEL TANK SWITCH

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

DESCENT

Power AS REQUIRED
 Fuel pump ON
 Mixture AS REQUIRED
 Carb heat AS REQUIRED
 Seats & seat belts.. UPRIGHT & SECURE

APPROACH & LANDING

Downwind 90 KTS
 Fuel selector FULLEST TANK
 Mixture (below 5000') RICH
 Carb heat AS REQUIRED
 Flaps (<102 KIAS)..... AS REQUIRED
 Landing (0°) 75 KIAS
 Landing (40°) 66 KIAS

AFTER LANDING

RPM..... 1000
 Radio GROUND/CTAF
 Flaps RETRACT
 Fuel pump OFF
 Carb heat OFF
 Mixture LEAN
 Pitot Heat..... OFF
 Transponder 1200

SHUTDOWN

Call for fuel **to tabs** AS REQUIRED
 Avionics/Radio master..... OFF
 Throttle..... IDLE
 Mixture CUTOFF

WHEN PROP STOPS

Magnetos (UPPER PANEL) OFF
 Electrical switches OFF
 Master & Alt switches (UPPER PANEL)..... OFF
 Hobbs & tach RECORD
 Flight controls SECURE
 Tie downs..... SECURE
 Cover ON

SPEEDS

Vg (0°)..... 73 KIAS
 glide distance approx 1 NM per 550'
 Va 113 KIAS
 Vfe..... 103 KIAS
 Vy (0°) 76 KIAS
 Vx (0°) 64 KIAS
 Vx (25°) 60 KIAS
 Vs0 44 KIAS
 Vs1 50 KIAS

SPECS

Usable fuel tabs/full 34/50g
 Taxi fuel..... Approx 1.4g
 Climb fuel 12.0 GPH
 Crosswind 17 KTS
 Maneuvers 2200 RPM/90 KTS
 Cruise 3000'@70% . 2520 RPM/109KTS
 Cruise GPH@70% (leaned)..... 10.3

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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 OPEN
Fuel pump OFF
Fuel selector..... OFF
 Report Issues to Operations
 (781) 274-6322

**ENGINE POWER LOSS IN
 FLIGHT**

Fuel selector FULLEST TANK
 Fuel pump ON
 Mixture RICH
 Carb heat ON
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for **best glide** 76 KIAS
 Landing area..... IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (40°) 66 KIAS
 Magnetos OFF
 Master switch..... OFF
 Alternator switch OFF
 Fuel selector OFF
 Mixture CUTOFF
 Seatbelts..... SECURE
 Door UNLATCH

ENGINE ROUGHNESS

Carb heat ON
 If still rough after ONE MINUTE:
 Carb heat OFF
 Mixture ADJUST TO SMOOTHEST
 Fuel pump ON
 Fuel selector SWITCH TANKS
 Engine gauges CHECK
 Magnetos CHECK SMOOTHEST
 Mixture RICH
 Land AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

Fuel selector OFF
 Throttle..... CLOSED
 Mixture CUTOFF
 Fuel pump OFF
 Heater & defroster OFF
 Speed INCREASE TO EXTINGUISH
 Land IMMEDIATELY

LOSS OF FUEL PRESSURE

Fuel pump ON
 Fuel selector CHECK ON FULL TANK

ELECTRICAL (CABIN) FIRE

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