

FREQUENCIES

BED

ATIS.....124.6
 GROUND121.7
 TOWER.....118.5
 BOS APP124.4
 Signature 130.8
 or 781-274-0010

OWD

ATIS.....119.95
 GROUND121.8
 TOWER.....126.0
 BOS APP124.1

ASH

ATIS125.1
 GROUND121.8
 TOWER.....133.2
 BOS APP124.9

Practice area-ALL..... 123.5

Emergency (guard)..... 121.5

COCKPIT SAFETY CHECK

Magnetos OFF, KEY OUT
 MixtureCUTOFF
 Throttle CLOSED

PREFLIGHT

Hobbs & tach RECORD
 Documents (AROW) CHECK
 Flight controls RELEASE
 Parking brake..... AS REQUIRED
 Avionics/Radio master..... OFF
 Electrical switches OFF
 Master switch..... ON
 Fuel gauges CHECK
 Annunciator panel..... TEST
 Pitot heat ON, CHECK, OFF
 Exterior lights ON, CHECK, OFF
 Stall horn CHECK
 Master switch..... OFF
 AltimeterFIELD ELEVATION
 Magnetic compass CHECK
 Pitot & static drains.....DRAIN
 Flight controls CHECK
 Flaps..... EXTEND
 Windows CHECK

RIGHT WING

General condition CHECK & CLEAR
 Flap CHECK
 Aileron CHECK
 Wingtip CHECK
 Tie down/chock REMOVE
 Fuel tank vent..... CHECK

Fuel tank sump.....DRAIN & NO DRIPS
 Fuel tank & quantity CHECK
 Fuel cap & vent CHECK
 Main gear & Brakes..... CHECK
 Fresh air inlet CHECK

NOSE

General condition & leaks CHECK
 Right engine compartment CHECK
 Oil (max 6, min 5.5) CHECK
 Propeller & spinner CHECK
 Alternator belt..... CHECK
 Air inlets CHECK
 Nose gear..... CHECK
 Chock REMOVE
 Left engine compartment CHECK
 Cowlings SECURE
 Fuel strainer..... DRAIN & NO DRIPS

LEFT WING

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

LEFT FUSELAGE

General condition CHECK
 Antennas..... CHECK
 Fresh air inlet CLEAR

EMPENNAGE

Stabilator CHECK & CLEAR
 Trim tab..... CHECK & CLEAR
 Rudder..... CHECK & CLEAR
 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
 Fuel selector DESEIRED TANK
 Circuit breakers..... CHECK
 FIN Strobes ON
 Carb heat OFF
 Brakes SET & HOLD

ENGINE START

Mixture RICH
 Throttle..... 1/4" COLD, 1/2" HOT
 Master & Alt switches..... ON
 Fuel pump..... ON CK PRESSURE
 Prime..... IF WON'T START
 Propeller area CLEAR
 Starter ENGAGE
 Throttle..... 800 -1200 RPM
 Oil pressure CHECK
 Mixture LEAN

BEFORE TAXI

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

TAXI

Parking Brake..... RELEASED
 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 (4.9-5.1") CHECK
 Oil Temp and Pressure CHECK
 Annunciator panel TEST
 Load Meter..CHARGING LTS & pitot on/off
 Carb heat (75 RPM drop/NO RISE)..... CHECK
 Fuel Pump OFF
 Fuel Pressure CHECK
 Throttle (min 500 RPM) IDLE
 Throttle..... 1000 RPM

BEFORE TAKEOFF

Primer LOCKED
 Fuel pump ON
 Pitot heat AS REQUIRED
 Flight instruments CHECK
 Trims X 2 TAKEOFF
 Flight controls CHECK
 Flaps As Required
 Seats & seat belts..UPRIGHT & SECURE
 Door & window SECURE
 Lights AS APPROPRIATE
 Takeoff briefing..... COMPLETE
 Radio TOWER/CTAF
 #2 Radio MONITOR 121.5

TAKEOFF

Mixture (below 5000') RICH
 Throttle FULL
 Power (2275-2375 RPM) CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate (0°/25°) 55/52 KIAS

CLIMB

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

CRUISE

Power 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
 Mixture AS REQUIRED
 ATIS.....OBTAIN
 Altimeters..... SET
 Carb heat AS REQUIRED
 Seats & seat belts.. UPRIGHT & SECURE

APPROACH & LANDING

Downwind 90 KTS
 Fuel pump ON
 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

Radio GROUND/CTAF
 RPM 1000
 Flaps..... RETRACT
 Fuel pump OFF
 Carb heat OFF
 Mixture LEAN
 Lights..... AS REQUIRED
 WING Storbes..... OFF

SHUTDOWN

Call for fuel..... AS REQUIRED
 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
 Flight controls..... SECURE
 Tie downs..... SECURE
 Cover ON

SPEEDS

Vg (0°) 76 KIAS
 glide distance approx 1 NM per 550'
 Va (2550/1634 lbs) 113/89 KIAS
 Vfe 102 KIAS
 Vy (0°) 76 KIAS
 Vx (0°) 64 KIAS
 Vx (25°)..... 54 KIAS
 Vs0 49 KIAS
 Vs1 55 KIAS

SPECS

Usable fuel tabs/full 34g/48g
 Taxi fuel 1.0g
 Climb fuel..... 12.0 GPH
 Crosswind..... 17 KTS
 Maneuvers..... 2200 RPM/90 KTS

Best Power Cruise Example:

Cruise 3000'@70% .. 2500 RPM/115KTS
 Cruise GPH@70% (leaned) 9.4

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..... OPEN
 Fuel pump OFF
 Fuel selector OFF
 Abandon if fire continues.

ENGINE POWER LOSS IN FLIGHT

Fuel selector SWITCH-TANK WITH FUEL
 Fuel pump ON
 Mixture RICH
 Carb heat ON
 Engine gauges CHECK FOR CAUSE
 Primer CHECK LOCKED
 Magnetos BOTH

POWER OFF LANDING

Trim for best glide 73 KIAS
 Landing area..... IDENTIFY
 Radio MAYDAY
 ELT..... ON
 Transponder 7700
 Final approach (40°)..... 63 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