

FREQUENCIES

BED

ATIS.....124.6
 GROUND.....121.7
 TOWER.....118.5
 BOS APP...124.4
 Signature 781-274-0010 / 130.8

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

PREFLIGHT

COCKPIT SAFETY CHECK

Magnetos OFF, KEYS OUT
Mixture..... CUTOFF
Throttle..... CLOSED
 Hobbs & tach RECORD
 Documents (AR(R)OW) CHECK
 Flight controls RELEASE
Parking Brake..RELEASED/AS REQUIRED
 Avionics/Radio master..... OFF
 Electrical switches OFF
 Master switch **PROP CLEAR** ON
 Fuel gauges **matches fuel in tanks** CHECK
 Annunciator panel TEST
 Aux vacuum pump **ONLY IF IMC OR NIGHT ON FOR 1 SECOND**.....CHECK
 Exterior lights & Pitot heat...ON & CHECK
 Stall horn CHECK
Exterior lights & Pitot heat..... OFF
 Master switch..... OFF
 AltimeterFIELD ELEVATION
 Magnetic compass CHECK
 Pitot & static drains DRAIN
 Flight controls.....FREE & CORRECT
 Flaps (**FLAP AREA CLEAR**) EXTEND
 Fire extinguisher CHECK
 WindowsCLEAN /CHECK

RIGHT WING

General condition CHECK & CLEAR
 Flap CHECK
 Aileron CHECK
 Wingtip CHECK
 Tie down/chock REMOVE
 Stall strip.....INSTALLED & SECURE
 Fuel tank vent..... CHECK
 Fuel tank sump.....DRAIN & **NO DRIPS**
 Fuel tank quantity CHECK

Fuel cap & **Vent** CHECK
 Main gear & Brake..... CHECK
 Fresh air inlet CHECK

NOSE

General condition & leaks..... CHECK
Right engine compartment ... CHECK
Oil (max 6, min 5.5)..... CHECK
Cowling Latches-L & R.....**SECURE**
 Propeller & spinner CHECK
 Alternator belt tension CHECK
 Air inlets CHECK
 Exhaust pipes (Hot?).....**SECURE**
 Nose gear CHECK
 Chock (If in place) REMOVE
TOW BAR...REMOVED AND STOWED
Left engine compartment..... CHECK
Cowling Latches-L & R.....**SECURE**
 Fuel strainer.....DRAIN & **NO DRIPS**

LEFT WING

General condition.....CHECK & CLEAR
 Fresh air inlet CHECK
 Main gear & Brake..... CHECK
 Fuel tank vent CHECK
 Fuel tank sump.....DRAIN & **NO DRIPS**
 Fuel tank quantity CHECK
 Fuel cap & **Vent** CHECK
 Stall strip.....INSTALLED & SECURE
 Tie down/chock (If in place) ... 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 & Nut.....CHECK & CLEAR
 RudderCHECK & CLEAR
 Antennas CHECK
 Tie down..... REMOVE

RIGHT FUSELAGE

General condition..... CHECK
 Antennas CHECK
 Baggage area & Ext Start Door
 SECURE Baggage door....UNLOCKED & LATCHED
HEATER EXTENSION CORD PLUG.....**REMOVED**

BEFORE ENGINE START

Tail Lock.....IN BAGGAGE OR COCKPIT
 Flaps.... (**FLAP AREA CLEAR**)RETRACT
 Passenger briefing. COMPLETE & **RALLY POINT**
 Seats & seat belts. UPRIGHT & SECURE
 Fuel selector. **LOWEST TANK** or **OTHER TANK**
 Circuit breakers CHECK

Strobes ON
 Carb heat OFF
 Brakes SET & HOLD

ENGINE START

Mixture RICH
 Throttle..... ¼ INCH COLD, ½ INCH HOT=800RPM
 Master & **Alt switch** ON
 Fuel pump (**Ck Pressure**) ON
 Prime:3-5 SECS IF COLD, 2 IF WARM, 0 IF HOT
Propeller area **CLEAR**
 Starter ENGAGE
 Throttle.800 RPM (No Higher Than 1000)
 Oil pressure CHECK
 Fuel pump OFF
 Mixture LEAN

BEFORE TAXI

Avionics/Radio master..... ON
 Radio CLNC/GROUND/CTAF
#2 Radio.....**MONITOR 121.5**
 Transponder (1200 or assigned) ALT
 ATIS CHECK
 Flight instruments SET
 Navigation.**GET CLRNC & SET FLT PLAN**
 Lights AS APPROPRIATE

TAXI

Parking Brake.....RELEASE
 Brakes CHECK
 Flight instruments **in clear area**CHECK

ENGINE RUNUP

Brakes (SET) & HOLD
Oil Temp.....**IN THE GREEN**
Fuel selector **OTHER TANK**
 Mixture (below 5000') RICH
 Throttle.....2000 RPM
 Mags (**Max drop 175, diff 50**). CHECK
 Vacuum (4.8-5.2") CHECK
 Engine gauges CHECK
 Annunciator panel TEST
 Load meter **ALL LTS, FUEL PUMP, & PITOT ON****CHECK then OFF**
 Carb heat (Approx 75 RPM drop-**NO RISE**)
Carb Heat..... **OFF**
 Throttle (min 500 RPM) IDLE
 Throttle.....IDLE = 500-700RPM
 Throttle.....1000 RPM
 Flight controls.....FREE & CORRECT

BEFORE TAKEOFF

Fuel pump **ON**
 Pitot heat.....AS REQUIRED
 Flight instruments CHECK
 Trims **ELEVATOR & RUDDER** .TAKEOFF
 Flaps ... NORMAL 0°, SHORT/SOFT 25°
 Seats & seat belts.....UPRIGHT & SECURE
 Door-**2 LATCHES** SECURE
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF
 Lights AS APPROPRIATE

TAKEOFF

Mixture (below 5000') RICH
 Throttle FULL
 Power (2330-2430 RPM=STATIC) ...CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate (0°/25°)..... 55/52 KIAS

CLIMB

Flaps...RETRACT AT SAFE SPEED (65KIAS)
 Airspeed (cruise climb) ...87KIAS/500'/MIN
 Oil pressure & Temp CHECK

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED
 Fuel pumpOFF- **CHECK PRESSURE**

FUEL TANK SWITCH

Fuel pump ON
 Fuel selector DESIRED TANK
 Fuel pressure CHECK
 Fuel pumpOFF- **CHECK PRESSURE**

DESCENT & BEFORE LANDING

Power AS REQUIRED
 Mixture AS REQUIRED
 Carb heat AS REQUIRED
 Seats & seat belts..UPRIGHT & SECURE
 Downwind90 KTS
 Fuel pump ON
 Fuel selector FULLEST TANK
 Mixture (below 5000') RICH
Carb heat (if on). OFF SHORT FINAL
 Flaps (<103 KIAS)..... AS REQUIRED
 Landing (0°) 70 KIAS
 Landing (40°) 63 KIAS

AFTER LANDING & CLEAR OF RUNWAY

Radio..... **GROUND/CTAF**
RPM after stopped.....1000
 Lights AS APPROPRIATE
 FlapsRETRACT
 Fuel pump OFF
 Carb heatCHECK OFF
 Mixture LEAN
 Pitot Heat.....OFF
 Transponder.....1200

SHUTDOWN

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

WHEN PROP STOPS

Magnetos OFF, **KEY OUT-ON DASH**
 Electrical switches OFF
 Master & Alt switches..... OFF
 Hobbs & tachRECORD
 Flight controls SECURE

PARKING BRAKE.....RELEASED

Tie downs/Chocks if no tie downs ...in place / SECURE
 CoverON

SPEEDS

Vg (0° Flaps)..... 73 KIAS
 Glide distance approx 1 NM per 550'
 Va (2440/1531 lbs) 111/88 KIAS
 Vfe..... 103 KIAS
 Vy (0°) 79 KIAS
 Vx (0°) 63 KIAS
 Vx (25°) 57 KIAS
 Vs0 44 KIAS
 Vs1 50 KIAS

SPECS

Usable fuel tabs/full 34g/48g
 Taxi fuel 1.0g
 Climb fuel (check poh)..... 12.0 GPH
 Crosswind 17 KTS
 Cruise 3000'@65% . 2320 RPM/103KTS

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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
 When engine stops.....**MASTER OFF**
 Evacuate to **RALLY POINT**

ENGINE POWER LOSS IN FLIGHT

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

IF ENGINE DOES START

POWER OFF LANDING

Trim for best glide **73 KIAS**
 Landing area ... **IDENTIFY & SET UP LANDING PATTERN**

ELT.....ACTIVATE

Radio-121.5 / TOWER /
APCH.....TRANSMIT "MAYDAY"
 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/SELECT 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