

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

PREFLIGHT

COCKPIT SAFETY CHECK

Magnetos OFF, KEY OUT
Mixture CUTOFF
Throttle CLOSED

Hobbs & Tach..... RECORD
 Documents (AROW) CHECK
 Flight controls RELEASE
 Parking brake..... AS REQUIRED
 Avionics/Radios OFF
 ELT..... ARM
 Electrical switches..... OFF
 Master switch..... ON
 Fuel gauges CHECK
 Alternator Warning Light ON
 Pitot heat (Only if required)..ON, CHECK, OFF
 Exterior lights ON, CHECK, OFF
 Stall horn CHECK
 Master switch..... OFF
 Altimeter FIELD ELEVATION
 Magnetic compass CHECK
 Pitot & static drains..... DRAIN
 Alternate Static source.....NORMAL/OFF
 Flight controls CHECK
 Flaps..... EXTEND
 Fire extinguisher (If installed) ... CHECK
 Baggage SECURE
 Windows..... CHECK

LEFT FUSELAGE

General condition CHECK
 Static Port.....CHECK
 Antennas.....CHECK

EMPENNAGE

Stabilator & Elevator... CHECK & CLEAR
 Rudder CHECK & CLEAR
 Antennas CHECK
 Tie down REMOVE

RIGHT FUSELAGE

General condition CHECK
 Antennas CHECK

RIGHT WING

General condition CHECK & CLEAR
 Flap CHECK
 Aileron CHECK
 Wingtip CHECK
 Inboard & Outboard Flow Strips 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

NOSE

General condition & leaks CHECK
 Fresh air inlet..... CHECK
 Right engine compartment..... CHECK
 Oil (max 5, min 4) CHECK
 RT Cowling Latches X2 SECURE
 Propeller & spinner CHECK
 Alternator belt..... CHECK
 Air inlets..... CHECK
 Nose gear..... CHECK
 Chock REMOVE
 Left engine compartment..... CHECK
 Hydraulic Brake Fluid.....CHECK
 Fresh air inlet..... CHECK
 Clef cowling Latches X2..... SECURE
 Fuel strainer X 2 (Switch Tanks)....
 DRAIN & NO DRIPS
 Tow Bar or Chocks.....REMOVED

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
 Inboard & Outboard Flow Strips. CHECK
 Pitot Tube 3 Holes CHECK
 Wingtip CHECK
 Aileron CHECK
 Flap CHECK

BEFORE ENGINE START

Tail Lock..... IN COCKPIT
 Baggage..... SECURE
 Flaps..... RETRACT
 Passenger briefing COMPLETE
 Seats & seat belts..... SECURE
 Fuel selector .. LOWEST TANK or EITHER TANK
 Circuit breakers..... CHECK
 Anti Collision Lights ON

Carb heat OFF
 Brakes SET & HOLD
 Doors (Upper & Lower Latches)...
 CLOSED & LATCHED

ENGINE START

Prime.....2-4 STROKES HOT, 2-5 COLD
On Last Stroke Leave Primer Out
 Master ON
 Fuel pump..... ON CK PRESSURE
 Mixture RICH
 Throttle..... ¼" COLD, ½" HOT
 Propeller area CLEAR
 Starter ENGAGE

Primer....ADVANCE SLOWLY AS
ENGINE STARTS

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

BEFORE TAXI

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

TAXI

Parking Brake RELEASE
 Brakes CHECK
 Flight instruments CHECK

ENGINE RUNUP

Brakes SET & HOLD
 Oil Temp IN THE GREEN
 Fuel selector OTHER TANK
 Mixture (below 5000') RICH
 Throttle..... 1800 RPM
 Mags (drop 175,diff 50) CHECK
 Vacuum (5.0±.1") CHECK
 Engine gauges CHECK
 Load meter... CHARGING LTS & pitot on/off
 Carb heat (drop/NO RISE) ON
 Throttle (min 500 RPM) IDLE
 Carb heat OFF
 Throttle..... 1000 RPM

BEFORE TAKEOFF

Primer..... LOCKED
 Fuel pump ON
 Pitot heat AS REQUIRED
 Flight instruments CHECK
 Static Source NORMAL
 Trim TAKEOFF
 Flight controls CHECK

...CONTINUED ON BACK...

Flaps..... NORMAL 0°, SHORT/SOFT 21°
 Seats & seat belts.. UPRIGHT & SECURE
 Doors (Upper & Lower Latches)
 CLOSED & LATCHED
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF
 #2 Radio (If installed .. MONITOR 121.5
Primer LOCKED

TAKEOFF

Lights WHEN CLR'D FOR TAKEOFF ... ON
 Mixture (below 5000') RICH
 Throttle FULL
 Power..... **2200-2350 RPM=STATIC**
 Engine gauges..... CHECK
 Airspeed CHECK
 Rotate (0°/21°)..... 53/53 KIAS

CLIMB

Flaps...RETRACT AT SAFE SPEED (60 KIAS)
 Airspeed (cruise climb).. 70 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..... RICHEN AS REQUIRED
 Fuel selector FULLEST TANK
 ATIS OBTAIN
 Altimeters. SET
 Carb heat AS REQUIRED
 Seats & seat belts.. UPRIGHT & SECURE

APPROACH & LANDING

Downwind..... 80 KTS
 Fuel pump ON
 Mixture (below 5000') RICH
 Carb heat AS REQUIRED
 Flaps (<89 KIAS)..... AS REQUIRED
 Landing (0°) 70 KIAS
 Landing (34°) 67 KIAS

AFTER LANDING

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

SHUTDOWN

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

WHEN PROP STOPS

Magnetos OFF, KEY OUT
 Electrical switches OFF
 Master 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 (2325/1531 lbs) 111/88 KIAS
 Vfe 103 KIAS
 Vy (0°)..... 70 KIAS
 Vx (0°)..... 61 KIAS
 Vx (21°)..... 61 KIAS
 Vs0 Full Flaps..... 49 KIAS

SPECS

Usable fuel **tabs/full** **24g/30g**
 Taxi fuel 1.0g
 Climb fuel 12.0 GPH
 Crosswind..... 17 KTS
 Maneuvers 2200 RPM/90 KTS
 Cruise 3000'@75% ... 2500 RPM/90KTS
 Cruise GPH@75% (leaned) 6.5

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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
 Fire Extinguisher ACTIVATE

ENGINE POWER LOSS IN FLIGHT

Fuel selector SWITCH-TANK WITH FUEL
 Fuel pump ON
 Mixture RICH
 Carb heat ON
 Primer..... LOCKED
 Magnetos .. L then R then back to BOTH
 Throttle & Mixture TRY DIFFERENT SETTINGS
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 70 KIAS
 Landing area IDENTIFY
 Radio MAYDAY
 ELT ON
 Transponder 7700
 Final approach (Full Flaps)..... 67 KIAS
 Magnetos OFF
 Master 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
 Cabin Heat 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 (If installed) AS NECESSARY
 Land AS SOON AS PRACTICAL