

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
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 TOWER..... 133.2
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Practice area-ALL 123.5
 Emergency (guard)..... 121.5
 Signature KBED... 781-274-0010 / 130.8

COCKPIT SAFETY CHECK

Magnetos OFF, KEYS OUT
 Mixture CUTOFF
 Throttle CLOSED

PREFLIGHT

Gen' conditionCHECK & CLEAR
 Hobbs & tach RECORD
 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 panelTEST
 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
 Altimeter FIELD ELEVATION
 Magnetic compass.....CHECK
 Pitot & static drainsDRAIN
 Flight controlsCHECK
 FlapsEXTEND
 Fire extinguisher.....CHECK
 Windows.....CHECK

RIGHT WING

Gen' 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 CHECK
 Fuel cap & Vent..... CHECK
 Main gear CHECK
 Fresh air inlet CHECK
 Gen' Condition & leaksCHECK

NOSE

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

LEFT WING

General condition CHECK & CLEAR
 Fresh air inletCHECK
 Main gearCHECK
 Fuel tank ventCHECK
 Fuel tank sump DRAIN & NO DRIPS
 Fuel tank CHECK
 Fuel cap & Vent.....CHECK
 Tie down/chock REMOVE
 Pitot Tube 3 HolesCHECK
 WingtipCHECK
 AileronCHECK
 FlapCHECK

LEFT FUSELAGE

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

EMPENNAGE

Fresh air inlet..... CLEAR
 Stabilator.....CHECK& CLEAR
 Trim tab CHECK & CLEAR
 Rudder CHECK & CLEAR
 Antennas CHECK
 Tie down REMOVE

RIGHT FUSELAGE

General condition..... CHECK
 General condition CHECK
 Antennas CHECK
 Baggage area SECURE
 Baggage door Un-locked & LATCHED

BEFORE ENGINE START

Tail Lock.....IN COCKPIT
 FlapsRETRACT
 Passenger briefingCOMPLETE
 Seats & seat beltsSECURE
 Alternate Static SourceOFF
 Fuel selector LOWEST or EITHER TANK
 Circuit breakers CHECK
 StrokesON
 Carb heat OFF
 Brakes SET & HOLD

ENGINE START

Throttle 1/4" COLD, 1/2" HOT
 Master & Alt switches.....ON
 Fuel pump(UPPER PANEL)ON
 MixtureRICH
 Prime3 to 5 Seconds MAX
 Propeller areaCLEAR

LEFT MAG (UPPER PANEL)ON

Starter ENGAGE

RIGHT MAG (UPPER PANEL)ON

Throttle ..800 RPM (No Higher Than 1000)
 Oil pressureCHECK
 Fuel pumpOFF
 Mixture LEAN

BEFORE TAXI

Mixture LEAN
 Avionics/Radio master.....ON
 Autopilot Tests.....CHECK
 Transponder (1200 VFR) ALT
 Radios SET
 ATIS CHECK
 Flight instruments SET
 Lights AS APPROPRIATE
 Navigation & Transponder SET
 Radio CLNC,GROUND/CTAF
 #2 Radio.....MONITOR 121.5

TAXI

Parking Brake..... RELEASE
 Brakes CHECK
 Flight instruments CHECK

ENGINE RUNUP

Flight instruments CHECK
 BrakesSET & HOLD
 Oil Temp IN THE GREEN
 Fuel selectorOTHER 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 meterCHARGING LTS & pitot on/off
 Carb heat (max drop-75 RPM)ON
 Throttle (min 500 RPM) IDLE
 Carb heat OFF
 Throttle1000 RPM
 Flight controls CHECK

BEFORE TAKEOFF

Flight controls CHECK
 Fuel pump ON
 Pitot heat..... AS REQUIRED
 Flight instruments CHECK
 Trims (Aileron & Rudder)..... TAKEOFF
 FlapsNORMAL 0°,SHORT/SOFT 25°
 Seats & seat beltsUPRIGHT & SECURE
 Door & window..... SECURE
 LightsON
 Takeoff briefingCOMPLETE
 Radio TOWER/CTAF

SPEEDS

Vg (0°) 73 KIAS
 glide distance approx 1 NM per 550'
 Va 113 KIAS
 Vfe103 KIAS
 Vy (0°)..... 76 KIAS
 Vx (0°)..... 64 KIAS
 Vx (25°)..... 60 KIAS
 Vs0 44 KIAS
 Vs1 50 KIAS

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
Fuel pumpOFF
Fuel & Oil pressureCHECK

CRUISE

Power AS REQUIRED
MixtureLEAN AS REQUIRED

FUEL TANK SWITCH

MixtureLEAN AS REQUIRED
Fuel pumpON
Fuel selectorDESIRED TANK
Fuel pressure CHECK
Fuel pump OFF

DESCENT

MixtureLEAN AS REQUIRED
Power AS REQUIRED
MixtureAS REQUIRED
Carb heat AS REQUIRED
Seats & seat beltsUPRIGHT & SECURE

APPROACH & LANDING

Downwind90 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

RPM1000
Radio GROUND/CTAF
Flaps.....RETRACT
Fuel pump OFF
Carb heat..... OFF
Mixture LEAN
Pitot HeatOFF

SHUTDOWN

Call for fuelAS REQUIRED
Avionics/Radio master OFF
ThrottleIDLE
MixtureCUTOFF

SHUTDOWN

MagnetosOFF, KEY OUT
Electrical switches OFF
Master & Alt switches (UPPER PANEL). OFF
Hobbs & tachRECORD
Flight controlsSECURE
Tie downsSECURE
CoverON

SPEEDS

Vr (0°) 60 KIAS
Vr (25°) 55KIAS
Vg (0°) .. 73 KIAS
glide distance approx 1 NM per 550'

Va 113 KIAS
Vfe103 KIAS
Vy (0°)..... 76 KIAS
Vx (0°)..... 64 KIAS
Vx (25°)..... 60 KIAS

SPEEDS FOR EMERGENCY OPERATIONS

Downwind90 KTS
Engine Failure After Takeoff63 KTS
Maximum Glide73 KTS
Landing Without Engine Power:
Flaps Up 73KTS
Flaps Down63 KTS

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
MixtureCUTOFF
ThrottleOPEN
Fuel pump.....OFF
Fuel selectorOFF

ENGINE FAILURE AFTER TAKEOFF

Fuel SelectorSWITCH TANKS
Fuel PumpCHECK ON
Airspeed65 KTS

IF ENGINE FAILS TO RESTART

MixtureCUTOFF
Fuel Shut Off ValveOFF
MagsOFF

ENGINE POWER LOSS IN FLIGHT

Fuel selector FULLEST TANK
Fuel pumpON
MixtureRICH
Carb heatON
Magnetos.....BOTH
Engine gaugesCHECK

POWER OFF LANDING

Va 113 KIAS
Trim for best glide 73 KIAS
Landing area IDENTIFY
RadioMAYDAY
Transponder7700
Final approach (40°)66 KIAS
Magnetos OFF
Master switch OFF
Alternator switch OFF
Fuel selector OFF
Mixture CUTOFF
Seatbelts SECURE
DoorUNLATCH

ENGINE ROUGHNESS

Carb heatON
If still rough after ONE MINUTE:
Carb heatOFF
Mixture ADJUST TO SMOOTHEST
Fuel pumpON
Fuel selector.....SWITCH TANKS
Engine gauges CHECK
Magnetos CHECK SMOOTHEST

MixtureRICH
Land AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

Fuel selector..... OFF
Throttle CLOSED
Mixture CUTOFF
Fuel pumpOFF
Heater & defroster OFF
SpeedINCREASE TO EXTINGUISH
Land IMMEDIATELY

LOSS OF FUEL PRESSURE

Fuel pump ON
Fuel selectorCHECK 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

COMMUNICATION LOSS

Frequency CHECK
Volume/Squelch CHECK
Speaker/Phones Switch CHECK
Headset Jacks CHECK
Circuit Breakers CHECK
Other Radio IF AVAILABLE
VOR FrequencyMONITOR
Squawk7600
Tower Lights Signals.....OBSERVE

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