

FREQUENCIES

BED
ATIS124.6
GROUND121.7
TOWER118.5
BOS APP124.4
Signature130.8
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-ALL123.5

Emergency (guard)121.5

COCKPIT SAFETY CHECK

MagnetosOFF, KEYS OUT
Mixture CUTOFF
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
 Aux vacuum pump CHECK
 Pitot heat.....ON, CHECK, OFF
 Exterior lights.....ON, CHECK, OFF
 Stall horn CHECK
 Master switch OFF
 Altimeter FIELD ELEVATION
 Magnetic compass..... CHECK
 Pitot & static drains DRAIN
 Flight controls CHECK
 Flaps..... EXTEND
 Fire extinguisher CHECK
 Windows..... CHECK

RIGHT WING

General condition..... CHECK & CLEAR
 Flap CHECK

AileronCHECK
 WingtipCHECK
 Tie down/chock.....REMOVE
 Fuel tank ventCHECK
 Fuel tank sump.....DRAIN & NO DRIPS
 Fuel tankCHECK
 Fuel cap & vent.....CHECK
 Main gearCHECK
 Fresh air inletCHECK

NOSE

General condition & leaks CHECK
 Right engine compartment..... CHECK
 Oil (max 6, min 5.5).....CHECK
 Propeller & spinner.....CHECK
 Alternator beltCHECK
 Air inlets.....CHECK
 Nose gearCHECK
 ChockREMOVE
 Left engine compartment..... CHECK
 Cowlings..... SECURE
 Fuel strainerDRAIN & NO DRIPS

LEFT WING

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

LEFT FUSELAGE

General conditionCHECK
 AntennasCHECK
 Fresh air inlet CLEAR

EMPENNAGE

Stabilator..... CHECK & CLEAR
 Trim tab CHECK & CLEAR
 Rudder CHECK & CLEAR
 AntennasCHECK
 Tie down.....REMOVE

RIGHT FUSELAGE

General conditionCHECK
 AntennasCHECK
 Baggage area SECURE
 Baggage doorUnlocked & LATCHED

BEFORE ENGINE START

Tail LockIN COCKPIT
 Flaps.....RETRACT
 Passenger briefing..... COMPLETE
 Seats & seat belts SECURE
 Fuel selector... LOWEST TANK or EITHER TANK
 Circuit breakers CHECK

StrobesON
 Carb heatOFF
 Brakes..... SET & HOLD

ENGINE START

Mixture..... RICH
 Throttle ¼" COLD, ½" HOT
 Master & Alt switches..... ON
 Fuel pump..... ON
 Prime..... 3-5 SECS IF COLD
 Propeller area CLEAR
 StarterENGAGE
 Throttle..800 RPM (No Higher Than 1000)
 Oil pressure.....CHECK
 Fuel pump..... OFF
 Mixture..... LEAN

BEFORE TAXI

Avionics/Radio master..... ON
 Transponder (1200 VFR) ALT
 Radios..... SET
 ATISCHECK
 Flight instrumentsSET
 Lights.....AS APPROPRIATE
 Navigation & Transponder..... SET
 RadioCLNC, GROUND/CTAF
 #2 RadioMONITOR 121.5

TAXI

Parking BrakeRELEASE
 Brakes.....CHECK
 Flight instrumentsCHECK

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 gaugesCHECK
 Annunciator panel TEST
 Load meter.. .CHARGING LTS & pitot on/off
 Carb heat (75 RPM drop).....ON
 Throttle (min 500 RPM)IDLE
 Carb heatOFF
 Throttle 1000 RPM
 Flight controls.....CHECK

BEFORE TAKEOFF

Fuel pump..... ON
 Pitot heat..... AS REQUIRED
 Flight instrumentsCHECK
 TrimsTAKEOFF
 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 (2330-2430 RPM=STATIC).CHECK
 Engine gauges.....CHECK
 Airspeed.....CHECK
 Rotate (0°/25°)..... 55/52 KIAS

CLIMB

Flaps...RETRACT AT SAFE SPEED (60KIAS)
 Airspeed (cruise climb) 87 KIAS
 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 pressureCHECK
 Fuel pump OFF

DESCENT

Power AS REQUIRED
 Mixture AS REQUIRED
 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 (<103 KIAS) AS REQUIRED
 Landing (0°) 70 KIAS
 Landing (40°)..... 63 KIAS

AFTER LANDING

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

SHUTDOWN

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

WHEN PROP STOPS

Magnetos OFF, KEY OUT
 Electrical switchesOFF
 Master & Alt switches.....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 (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 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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ENGINE POWER LOSS IN FLIGHT

Fuel selector..... FULLEST TANK
 Fuel pump..... ON
 Mixture..... RICH
 Carb heat ON
 Magnetos..... BOTH
 Engine gaugesCHECK

POWER OFF LANDING

Trim for best glide..... 73 KIAS
 Landing area IDENTIFY
 RadioMAYDAY
 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 gaugesCHECK
 Magnetos.....CHECK SMOOTHEST
 Mixture..... RICH
 LandAS 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 switchOFF
 Alternator switch.....OFF
 VentsOPEN
 Heater & defroster..... OFF
 Fire extinguisher AS NECESSARY
 LandAS SOON AS PRACTICAL

EMERGENCIES NOTE: NOT ALL EPs are here. **Check POH for additional procedures**

ENGINE FIRE DURING START
StarterCONTINUE CRANKING
Mixture CUTOFF
Throttle.....OPEN
Fuel pump OFF
Fuel selector OFF