

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**

COCKPIT SAFETY CHECK

Magnetics	OFF, KEYS OUT
Mixture	CUTOFF
Throttle	CLOSED

PREFLIGHT

Hobbs & tach.....	RECORD
Documents (AROW).....	CHECK
Flight control lock.....	REMOVE
Parking brake (as required)	SET
Avionics/Radio master	OFF
Electrical switches	OFF
Master switches	ON
Fuel gauges	CHECK
Pitot heat.....	ON, CHECK, OFF
Exterior lights.....	ON, CHECK, OFF
Flaps.....	EXTEND
Master switch	OFF
Altimeter	FIELD ELEVATION
Magnetic compass	CHECK
Fuel selector	BOTH
Alternate static	OFF
Fire extinguisher	CHECK
Windows.....	CHECK

EMPPENNAGE

General condition	CHECK
Baggage door.....Un-locked &	
LATCHED	
Tie down	REMOVE
Elevator	CHECK & CLEAR
Trim tab	CHECK & CLEAR
Rudder	CHECK & CLEAR
Antennas	CHECK

RIGHT WING

General condition	CHECK & CLEAR
Flap	CHECK
Aileron	CHECK
Wingtip	CHECK
Tie down/chock.....	REMOVE
Main gear & Brakes	CHECK
Fuel tank sump.....	DRAIN & NO DRIPS
Fuel tank	CHECK
Fuel cap & Vent	CHECK
Fresh air inlet	CHECK

BEFORE TAXI

Flaps.....	RETRACT
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

NOSE

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

LEFT WING

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

ENGINE RUNUP

Brakes.....	SET & HOLD
Fuel selector.....	BOTH
Mixture (below 3000')	RICH
Primer.....	LOCKED
Throttle	1700 RPM
Mags (drop 125,diff 50).....	CHECK
Vacuum (4.6-5.4")	CHECK
Engine indicators	CHECK
Ammeters & voltmeters	CHECK LTS & pitot on/off, Flaps Down/UP
Carb heat (RPM drop/No Rise)	ON
Throttle	IDLE
Carb heat	OFF
Throttle	1000 RPM

BEFORE TAKEOFF

Pitot heat.....	AS REQUIRED
Flight instruments	CHECK
Trim.....	TAKEOFF
Flight controls	CHECK
Flaps.....	NORMAL/SHORT 0°, SOFT 10°
Seats & seat belts	SECURE
Doors & windows	SECURE
Lights.....	ON
Takeoff briefing	COMPLETE
Radio	TOWER/CTAF

ENGINE START

Mixture.....	RICH
Carb heat	OFF
Throttle	1/8" OPEN
Master switches	ON
Beacon.....	ON
Primer if COLD.....	2-6 STROKES and locked
Propeller area	CLEAR
Starter	ENGAGE
Throttle..800 RPM (No Higher Than 1000)	
Oil pressure	CHECK
Mixture.....	LEAN

TAKEOFF

Carb heat COLD
 Mixture (below 3000') RICH
 Throttle FULL
 Power (2270-2370 RPM=Static). CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 60 MPH/52 KTS

CLIMB

Flaps...RETRACT AT SAFE SPEED (65 MPH)
 Airspeed (cruise climb) 80-90 MPH/500'/MIN...
 70-78 KTS

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED

DESCENT

Carb heat AS REQUIRED
 Power AS REQUIRED
 Mixture AS REQUIRED/RICH
 Seats & seat belts..UPRIGHT & SECURE

APPROACH & LANDING

Downwind 95 MPH/83 KTS
 Fuel selector BOTH
 Mixture (below 3000') RICH
 Carb heat FULL HEAT
 Flaps (100 MPH/87 KTS) AS REQUIRED
 Landing (0°) 74 MPH/64 KTS
 Landing (40°) 69 MPH/60 KTS

AFTER LANDING

Radio GROUND/CTAF
 Carb heat COLD
 RPM 1000
 Flaps RETRACT
 Mixture LEAN
 Lights AS REQUIRED
 Pitot Heat OFF

SHUTDOWN

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

WHEN PROP STOPS

Magnos OFF, KEY OUT
 Electrical switches OFF
 Master switches OFF
 Hobbs & tach RECORD
 Flight control lock INSTALL
 Fuel selector LEFT or RIGHT
 Tie downs SECURE
 Cover ON

SPEEDS

Vg (0° flaps) 80 MPH/70 KTS
 glide distance approx 1 NM per 700'
 Va (2300/2000 lbs) 112/104 MPH
 97/90 KTS
 Vfe 100 MPH/87 KTS
 Vy (0°,0' MSL) 90 MPH/78 KTS
 Vy (0°,10,000' MSL) 79 MPH/69 KTS
 Vx (0°) 68 MPH/59 KTS
 Vs0 49 MPH/43 KTS
 Vs1 57 MPH/50 KTS

SPECS

Usable fuel 38g
 Taxi fuel 1.0g
 Climb fuel 10.4 GPH
 Crosswind 17 MPH/15 KTS
 Maneuvers
 2200 RPM/100 MPH/87 KTS
 Cruise 3000'@71%
 2500 RPM/123 MPH/107 KTS
 Cruise GPH@71% (leaned) 7.7

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

ENGINE FIRE DURING START

Starter CONTINUE CRANKING 2-3
 MINUTES
 Mixture CUTOFF
 Throttle OPEN
 Fuel shutoff OFF
 Magnetos OFF
 Master switches OFF
 Fire Extinguisher ACTIVATE

ENGINE POWER LOSS

Airspeed 80 MPH
 Carb heat FULL HEAT
 Mixture RICH
 Fuel selector BOTH
 Magnetos BOTH
 Primer IN and LOCKED
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 80 MPH/70 KTS
 Landing area IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (40°) 69 MPH/60 KTS
 Mixture CUTOFF
 Fuel shutoff OFF
 Magnetos OFF
 Master switches OFF
 Seat belts SECURE
 Doors UNLATCH

ENGINE FIRE IN FLIGHT

Mixture CUTOFF
 Fuel shutoff OFF
 Throttle CLOSED
 Master switches OFF
 Airspeed to extinguish
 120 MPH/104 KTS
 Cabin heat & air OFF
 Airspeed INCREASE TO EXTINGUISH
 Land IMMEDIATELY

ELECTRICAL FIRE

Master switches OFF
 Avionics/Radio master OFF
 Vents, cabin heat & air CLOSED
 Fire extinguisher AS NECESSARY
 Electrical switches OFF
 Vents (when fire extinguished)OPEN
 Land AS SOON AS PRACTICAL