

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**

Magnos	OFF, KEYS OUT
Mixture	CUTOFF
Throttle	CLOSED

PREFLIGHT

Hobbs & Tach	RECORD
Documents (AROW)	CHECK
Flight controls	RELEASE
Gear selector	DOWN
Parking brake	AS REQUIRED
Avionics/Radio master	OFF
Electric switches	OFF
Master switch	ON
Gear lights	3 GREEN
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
Aileron	CHECK
Wingtip	CHECK
Tie down/chock	REMOVE

Fuel tank vent	CHECK
Fuel tank sump	DRAIN
Fuel tank	CHECK
Fuel cap & vent	CHECK
Main gear	CHECK
Fresh air inlet	CHECK

NOSE

General condition & leaks	CHECK
Cowling	CHECK
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

LEFT WING

General condition	CHECK & CLEAR
Fresh air inlet	CHECK
Main gear	CHECK
Fuel tank vent	CHECK
Fuel tank sump	DRAIN
Fuel tank sump	DRAIN & NO DRIPS
Fuel cap & vent	CHECK
Tie down/chock	REMOVE
Pitot Tube 3 Holes	CHECK
Wingtip	CHECK
Aileron	CHECK
Flap	CHECK

LEFT FUSELAGE

General condition	CHECK
Static port	CHECK
Antennas	CHECK
Fresh air inlet	CHECK

EMPPENNAGE

Stabilator	CHECK & CLEAR
Trim tab	CHECK & CLEAR
Rudder	CHECK & CLEAR
Antennas	CHECK
Tie down	REMOVE

RIGHT FUSELAGE

General condition	CHECK
Static port	CHECK
Antennas	CHECK
Baggage area	SECURE
Baggage door	Unlocked & LATCHED

BEFORE ENGINE START

Tail Lock	IN COCKPIT
Flaps	RETRACT
Passenger briefing	COMPLETE
Seats & seat belts	SECURE
Fuel selector	LOWEST TANK or EITHER TANK
Circuit breakers	CHECK
Alternate air	OFF
Strobes	ON
Propeller	MAX RPM
Brakes	SET & HOLD

ENGINE START

Throttle	1/2" OPEN
Master & Alt switches	ON
Fuel pump	ON
Mixture if cold	RICH 3-5 SECS
Mixture	CUT OFF
Propeller area	CLEAR
Starter	ENGAGE
Mixture	RICH
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
ATIS	CHECK
Flight instruments	SET
Lights	AS APPROPRIATE
Navigation	SET
Radio	CLNC, GROUND/CTAF
#2 Radio	MONITOR 121.5

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	2000 RPM
Mags (drop 175, diff 50)	CHECK
Vacuum (4.8-5.1")	CHECK
Engine gauges	CHECK
Ammeter	CHARGING LTS & pitot on/off
Annunciator panel	TEST
Alternate air	CHECK
Propeller (max 500 drop)	CYCLE 3x
Throttle (min 500 RPM)	IDLE
Throttle	1000 RPM
Flight controls	CHECK

BEFORE TAKEOFF

Fuel pump	ON
Propeller	MAX RPM
Pitot heat	AS REQUIRED
Flight instruments	CHECK
Trims X 2	TAKEOFF
Flaps....	NORMAL 0°, SHORT/SOFT 25°
Seats & seat belts	SECURE
Door & window	SECURE
Lights	ON
Takeoff briefing	COMPLETE
Air conditioning	OFF
Radio	TOWER/CTAF

TAKEOFF

Mixture (below 5000')..... RICH
 Throttle FULL
 Power CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 0°/25° 71/59 KIAS

CLIMB

Gear UP
 Flaps...RETRACT AT SAFE SPEED (60KIAS)
 Airspeed (cruise climb) 104 KIAS/500FPM

Fuel pump OFF
 Fuel pressure CHECK

CRUISE

Power & Propeller..... AS REQUIRED
 Mixture LEAN AS REQUIRED

FUEL TANK SWITCH

Fuel pump ON
 Fuel selector DESIRED TANK
 Fuel pressure CHECK
 Fuel pump OFF

DESCENT

Power & Propeller..... AS REQUIRED
 Mixture AS REQUIRED
 Seats & seat belts..UPRIGHT & SECURE

APPROACH & LANDING

Downwind..... 90 KTS
 Air conditioning..... OFF
 Fuel pump ON
 Fuel selector FULLEST TANK
 Mixture (below 5000')..... RICH
 Propeller..... MAX RPM
 Gear (<129 KIAS)..... DOWN
 Flaps (<103 KIAS) AS REQUIRED
 Landing (0°) 78 KIAS
 Landing (40°)..... 72 KIAS

AFTER LANDING

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

SHUTDOWN

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

WHEN PROP STOPS

Magnetics..... OFF, KEY OUT
 Electrical switches OFF
 Master & Alt switches..... OFF
 Hobbs & tach..... RECORD
 Flight controls SECURE
 Tie downs SECURE
 Cover..... ON

SPEEDS

Vg (gear up, 0°, prop low)..... 79 KIAS
 glide distance approx 1 NM per 700'
 Va (2750/1865 lbs) 118/96 KIAS
 Vfe 103 KIAS
 Vlo (retract, extend) 107,129 KIAS
 Vle 129 KIAS
 Vy (gear down,0°)..... 78 KIAS
 Vy (gear up,0°) 90 KIAS
 Vx (gear down,25°)..... 62 KIAS
 Vx (gear down,0°)..... 72 KIAS
 Vx (gear up,0°) 78 KIAS
 Vs0..... 55 KIAS
 Vs1..... 60 KIAS

SPECS

Usable fuel tabs/full..... 50g/72g
 Taxi fuel 1.3g
 Climb fuel (75% power) 12.7 GPH
 Crosswind 17 KTS
 Maneuvers 2500 RPM/20"/100 KTS
 Cruise 75% 2500 RPM, 12.7 GPH
(leaned)
 3000' 25.3", 133 KTAS
 6000' 24.3", 135 KTAS

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**

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**

MANUAL GEAR EXTENSION

Master switch CHECK ON
 Alternator switch CHECK ON
 Circuit breakers CHECK
 Nav light switch (daytime) OFF
 Gear bulbs CHECK
 Airspeed BELOW 87 KIAS
 Gear switch DOWN
 Emergency gear lever HOLD DOWN
 Yaw with rudder AS REQUIRED
 Reduce speed AS REQUIRED
 Gear switch CYCLE AS REQUIRED

ENGINE POWER LOSS

Fuel selector FULLEST TANK
 Fuel pump ON
 Mixture RICH
 Alternate air OPEN
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 79 KIAS
 Propeller MIN RPM
 Landing area IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (40°) 72 KIAS
 Gear AS REQUIRED
 Magnetos OFF
 Master switch OFF
 Alternator switch OFF
 Fuel selector OFF
 Mixture CUTOFF
 Seatbelts SECURE
 Door UNLATCH

ENGINE ROUGHNESS

Mixture ADJUST TO SMOOTHEST
 Alternate air OPEN
 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
 Heater & defroster OFF
 Speed INCREASE TO EXTINGUISH
 Land IMMEDIATELY

ELECTRICAL (CABIN) FIRE

Master switch OFF
 Alternator switch OFF
 Vents OPEN
 Heater & defroster OFF
 Fire extinguisher AS NECESSARY
 Land AS SOON AS PRACTICAL