

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

Magnetos OFF, KEY OUT

Mixture CUTOFF

Throttle CLOSED

PREFLIGHT

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 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

Static Drain DRAINED

Flaps EXTEND

Fire extinguisher (If installed) ... CHECK

Baggage SECURE

Windows 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

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

Cowlings SECURE

Fuel strainer X 2 (Switch Tanks) ...

..... DRAIN & NO DRIPS

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

LEFT FUSELAGE

General condition CHECK

Antennas CHECK

EMPENNAGE

Stabilator & Elevator... CHECK & CLEAR

Rudder CHECK & CLEAR

Antennas CHECK

Tie down REMOVE

RIGHT FUSELAGE

General condition CHECK

Antennas 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 1/4" COLD, 1/2" 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
 Lights ON
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF
 #2 Radio (If installed.. MONITOR 121.5

TAKEOFF

Mixture (below 5000')..... RICH
 Throttle FULL
 Power (2200-2350 RPM=STATIC) .CHECK
 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 AS REQUIRED
 ATIS OBTAIN
 Altimeters. SET
 Carb heat AS REQUIRED
 Seats & seat belts.. UPRIGHT & SECURE

APPROACH & LANDING

Downwind..... 80 KTS
 Fuel pump ON
 Fuel selector FULLEST TANK
 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
 Flaps..... RETRACT
 Fuel pump OFF
 Carb heat OFF
 Mixture LEAN
 Lights..... AS REQUIRED
 Pitot Heat..... OFF

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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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
 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 (34°)..... 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 AS NECESSARY
 Land AS SOON AS PRACTICAL