

EMERGENCIES NOTE: NOT ALL EPS HERE; CHECK POH

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
Mixture FULL LEAN/CUTOFF
Throttle OPEN
Fuel Pump OFF
Fuel Selector OFF
Master & Mags OFF

EVACUATE / FIRE EXTINGUISHER

ENGINE POWER LOSS DURING TAKEOFF IF CANNOT ABORT

MAINTAIN AIRCRAFT CONTROL
Maintain Safe Airspeed 73 KIAS
Fuel Selector OFF
Mixture FULL LEAN/CUTOFF
Flaps AS REQUIRED
Master & Mags OFF

UNLATCH DOOR PROTECT BODY

POWER LOSS IN FLIGHT WITH SUFFICIENT ALTITUDE

Trim Best Glide Speed 73 KIAS
PICK LANDING SITE, NOTE WIND
Fuel Selector SWITCH TANKS
Fuel Pump ON
Carb Heat ON
Mixture FULL RICH
Engine Gauges Check for Cause of Loss
Fuel Primer CHECK LOCKED
Magnetos CHECK BOTH/L/R
If power restored
Carb Heat OFF
Fuel Pump OFF

If power not restored, prepare for

POWER OFF LANDING

Trim Best Glide Speed 73 KIAS
PICK LANDING SITE, NOTE WIND
Declare emergency SQUAWK 7700
ELT ON
Short Final 63 KIAS
Flaps FULL FLAPS
Seat Belt/Harness TIGHT
Mixture FULL LEAN/CUTOFF
Fuel Selector OFF
Master & Mags OFF
UNLATCH DOOR PROTECT BODY

ELECTRICAL FIRE IN FLIGHT

Master Switch, Cabin Heat OFF
Vents OPEN
Land As Soon As Possible/Practicable

ENGINE FIRE IN FLIGHT

Fuel Selector, Fuel Pump OFF
Throttle IDLE/CLOSED
Mixture FULL LEAN/CUTOFF
Cabin Heat/Defroster OFF

INITIATE EMERGENCY DESCENT

Flaps FULL (40°)
Airspeed 103 KIAS (top of white arc)
Bank 30-45°

RECOVER AS APPROPRIATE FOR POWER-OFF LANDING

ENGINE ROUGHNESS

Carb Heat ON
If still rough after ONE minute:
Carb Heat OFF
Mixture ADJUST to SMOOTHNESS
Fuel Pump ON
Fuel Selector SWITCH TANKS
Engine Gauges CHECK
Magnetos L, R, THEN BOTH
Land As Soon As Practicable

LOSS OF FUEL PRESSURE

Fuel Pump ON
Fuel Selector SWITCH TANKS

LOSS OIL PRESS/HIGH OIL TEMP

Land As Soon As Possible
Prepare for Power Off Landing

ELECTRICAL FAILURES

Annunciator Light CHECK GAUGE/LIGHT
ALT Switch OFF
Reduce Electric Loads CHECK CBs
Land As Soon As Practicable

AIRSPEEDS

V_{NE} 160 KIAS
V_{NO} 126 KIAS
V_A (2325#/1530#) 111/88 KIAS
V_{FE} 103 KIAS
V_S 50 KIAS
V_{SO} 44 KIAS
V_Y 79 KIAS
V_X flaps 25°/0° 55/63 KIAS
V_R 55 KIAS
Climb Enroute 87 KIAS
Best Glide (2325#) 73 KIAS

SPECS

Usable Fuel Tabs/Full 34 G/48 G
Oil 8 QTs max; 6 QTs recommended
Tire Pressure 30 PSI Nose; 24 PSI main
Taxi Fuel 1.0 Gallon
Max Demonstrated X-Wind 17 KTS
Cruise 3,000'@75% 2500 RPM/108 KTS
Cruise GPH@75% (leaned) 9.4 GPH

LIGHT SIGNALS IN FLIGHT

Steady Green Cleared to Land
Flashing Green Return for Landing
Steady Red Yield & Continue Circling
Flashing Red Unsafe - Do Not Land
Red/Green Alt Use Extreme Caution

LIGHT SIGNALS ON GROUND

Steady Green Cleared to Take Off
Flashing Green Cleared to Taxi
Steady Red Stop
Flashing Red Taxi Clear of Runway in Use
Flashing White Taxi to Starting Point
Red/Green Alt Use Extreme Caution

ALT AIRPORTS / 0 WIND

Bedford to Lawrence KBED – KLWM
042°/17 NM ATIS: 126.75 Tower: 119.25

Bedford to Nashua KBED – KASH
348°/21 NM ATIS: 125.1 Tower: 133.2

Bedford to Norwood KBED – KOWD
179°/18 NM ATIS: 119.95 Tower: 126.0
Caution: Needham Antennas 1,500' MSL

Bedford to Fitchburg KBED – KFIT
300°/21 NM
ASOS: 135.75 PCL: 123.0 CTAF: 122.7

CROSSWIND TABLE

Angle	5 kt	10 kt	15 kt	20 kt	25 kt	30 kt
0°	0	0	0	0	0	0
10°	1	2	3	3	4	5
20°	2	3	5	7	9	10
30°	3	5	8	10	13	15
40°	3	6	10	13	16	19
50°	4	8	11	15	19	23
60°	4	9	13	17	22	26
70°	5	9	14	19	23	28
80°	5	10	15	20	25	30
90°	5	10	15	20	25	30

HANSCOM AERO CLUB PA-28-161 PIPER WARRIOR II CHECKLIST 09/2024

SAFETY CK PREFLIGHT INTERIOR

Magnetos.....OFF/KEYS OUT
Mixture.....FULL LEAN/CUTOFF
Throttle.....CLOSED
Hobbs & TachRECORD
Documents (AROW)CHECK
Flight ControlsRELEASE
Avionics/Radio MasterOFF
Electrical SwitchesOFF
Master Switch (Prop Clear).....ON
Fuel GaugesCHECK
Annunciator panelTEST
Exterior Lights & Pitot Heat.....ON & CHECK
Stall hornCHECK
Exterior Lights & Pitot Heat.....OFF
Master Switch.....OFF
Pitot & Static DrainsCHECK
Flight Controls & Trim.....CHECK
Windows.....CLEAN
Flaps.....EXTEND

PREFLIGHT-EXTERIOR

Flight controls.....CHECK & CLEAR
Tie down/chocks.....REMOVE
Fuel Quantity/QualityCHECK
Gear & Brakes.....CHECK
Engine/Oil/Belt/Propeller.....CHECK
Inlets/Pitot Static.....CLEAR
Antennas.....CHECK
Baggage AreaSECURE
Baggage DoorLATCHED
Final Walk AroundCHECK

BEFORE ENGINE START

Flaps.....RETRACT
Passenger Brief (& Rally Point) ... COMPLETE
Seat & Seat Belts/HarnessSECURE
Fuel SelectorLOWER TANK
Circuit BreakersCHECK
Strobes/Anti-Collision LightsON
Carb Heat.....OFF
BrakesSET & HOLD

ENGINE START

MixtureRICH
Throttle.....¼" COLD, ½" HOT
PrimerAS REQUIRED & SECURED
Master & Alt SwitchesON
Fuel Pump.....ON
Propeller Area.....CLEAR
Starter.....ENGAGE
Throttle.....800 RPM (NOT > 1,000 RPM)
Oil Pressure.....CHECK
Fuel Pump.....OFF
MixtureAS REQUIRED

PRE TAXI / TAXI

Avionics / Radio MasterON
ATIS/AWOS.....CHECK
Altimeter/Radios/XPDRSET
Flight InstrumentsSET & CHECK
Taxi Light/LightsON/AS REQUIRED
Brakes.....CHECK
SteeringCHECK

ENGINE RUNUP

Brakes.....SET & HOLD
Oil TempIN LIMITS
Fuel SelectorOTHER TANK
Mixture.....RICH
Throttle.....2,000 RPM
Mags (drop 175, diff 50)CHECK
Vacuum (4.9 – 5.1").....CHECK
Engine GaugesCHECK
Annunciator Panel.....TEST
Load MeterCHARGING
Carb Heat.....ON/RPM DROP/NO RISE
Throttle (min 500 RPM).....RETARD
Carb Heat.....OFF
Throttle.....1,000 RPM

BEFORE TAKEOFF

Primer.....IN & LOCKED
Fuel Pump & Landing Light.....ON
Pitot HeatAS REQUIRED
Flight InstrumentsCHECK
Trim (Elev + Rudder)CHECK
Flight Controls/FlapsCHECK
Seat & Seat Belts/Harness.....SECURE
Door & Window.....LATCHED
Takeoff BriefingCOMPLETE

TAKEOFF

Mixture.....FULL RICH
Throttle.....FULL
PowerCHECK
Engine GaugesCHECK
Airspeed Indicator.....CHECK
Rotate (0° Flaps)55 KIAS
Rotate Short/Soft (25° Flaps)52 KIAS

CLIMB

FlapsRetract at safe speed
Airspeed cruise climb87 KIAS
Engine GaugesCHECK
Fuel Pump.....OFF at Safe Alt

CRUISE

Throttle.....AS REQUIRED
Mixture.....AS REQUIRED
FuelPROPER TANK
Engine GaugesCHECK

DESCENT – NORMAL

Throttle & Airspeed.....2,500/126 KIAS
Mixture.....RICH
Carb HeatON if required

DESCENT – POWER OFF

Carb HeatON if required
Throttle & Airspeed.....Closed/As required
Mixture.....RICH
ThrottleVerify every 30 seconds

APPROACH & LANDING

ATIS/AWOS.....CHECK
Altimeter/Radios/Flight InstrumentsSET
Seat & Seat Belts/Harness.....SECURE
Fuel Pump & Landing Light.....ON
Mixture.....RICH
Fuel.....PROPER TANK
FlapsAS REQUIRED (103 KIAS Max)
Trim to airspeed70 KIAS
Final approach (flaps 40°)63 KIAS

AFTER LANDING

FlapsRETRACT
Fuel PumpOFF
Carb Heat & Pitot Heat.....OFF
Mixture.....LEAN
TrimNEUTRAL

SHUTDOWN & SECURING

Avionics/Radio MasterOFF
ThrottleIDLE
MagnetosCHECK FOR GROUND
ELTConfirm OFF
Mixture.....FULL LEAN/CUTOFF
MagnetosOFF, KEY OUT
Master & Alt Switches.....OFF
Lights/Electric Switches.....OFF
Flight ControlsSECURE
Hobbs & TachRECORD
Tie Downs.....SECURE
Door & WindowSECURE
Post Flight Walkaround.....COMPLETE

BED FREQUENCIES & PHONE

ATIS124.6
GROUND.....121.7
TOWER118.5
BOS APP (inc. clearance w/tower clsd)124.4
CLEARANCE121.85
ILS111.15
VOT.....110.0
Aero Club OPS781-225-5849
Aero Club MX781-225-5851
Tower781-862-1592

WARNING:
Improper leaning procedures will
greatly reduce endurance