

PA28-161 PIPER WARRIOR III CHECKLIST

EAST COAST AERO CLUB

PREFLIGHT

COCKPIT SAFETY CHECK

Magnetos**OFF, KEY OUT**
 Mixture**CUTOFF**
 Throttle**CLOSED**

Hobbs & TachRECORD
 Documents (A(R)ROW)CHECK
 Flight controlsRELEASE
 Parking brake releasedAS REQUIRED
 Avionics/Radios OFF
 Electrical switchesOFF
Strobes**ON**
 Master switch **PROP CLEAR** ON
 Fuel gaugesCHECK
 Annunciator PanelCHECK
IF IFR OR NIGHT FLIGHT
 Aux vacuum pump **ON FOR 1 SECOND**.....CHECK
 Exterior lights ON, CHECK, OFF
 Pitot heat ON, CHECK, OFF
 (**ONLY IF REQUIRED**)

Stall horn CHECK
 Exterior lights (& Pitot heat) OFF
 Master switch OFF
 Altimeter FIELD ELEVATION
 Magnetic compass & deviation card..... CHECK
 Pitot & static drains DRAIN
 Flight controls CHECK
 FlapsEXTEND
 Fire extinguisher (if installed) CHECK
 Windows CHECK

RIGHT WING

General condition CHECK & CLEAR
 Flap CHECK
 Ailerons & static wicks (if installed) CHECK
 WingtipCHECK
 Tie down/chockREMOVE
 Stall stripCHECK INSTALLED
 Fuel tank ventCHECK
 Fuel tank sumpDRAIN & NO DRIPS
 Fuel tank quantity..... CHECK
 Fuel cap & ventCHECK
 Main gear & brakeCHECK
 Fresh air inletCHECK

NOSE

General condition & leaks CHECK
Right engine compartment CHECK
 Oil (**6 Qts**) CHECK
 Cowling Latches - L & RSECURE
 Propeller & spinner CHECK
 Alternator belt tension CHECK
 Air inlets CHECK
 Exhaust pipes (Hot?) SECURE
 Nose gear CHECK
 Chocks (If in place) REMOVE
TOW BAR REMOVED AND STOWED

Left engine compartment CHECK
 Cowling Latches - L & RSECURE
 Fuel strainer DRAIN & NO DRIPS

LEFT WING

General condition CHECK & CLEAR
 Fresh air inletCHECK
 Main gear & brakeCHECK
 Fuel tank ventCHECK
 Fuel tank sumpDRAIN & NO DRIPS
 Fuel tank quantity..... CHECK
 Fuel tank CHECK
 Fuel cap & vent CHECK
 Stall stripCHECK INSTALLED
 Tie down/chockREMOVE
 Pitot Tube (3 holes)CHECK
 WingtipCHECK
 Ailerons & static wicks (if installed) CHECK
 Flap CHECK

LEFT FUSELAGE

General conditionCHECK
 AntennasCHECK
 Fresh air inletCLEAR

EMPENNAGE

Stabilator CHECK & CLEAR
 Trim tab & Nut CHECK & CLEAR
 Rudder CHECK & CLEAR
 Antennas CHECK
 Tie down / Lock REMOVE

RIGHT FUSELAGE

General ConditionCHECK
 AntennasCHECK
 Baggage area & Ext Start DoorSECURE
 Baggage doorUNLOCKED & LATCHED

BEFORE ENGINE START

Tail Lock IN BAGGAGE OR COCKPIT
 Flaps RETRACT
 Passenger briefing COMPLETE
 Seats & seat belts UPRIGHT & SECURE
 Fuel selectorLOWEST or OTHER TANK
 Circuit breakersCHECK
 StrobesON
 Carb HeatOFF
 Brakes SET & HOLD

ENGINE START

MixtureRICH
 Throttle¼ INCH COLD, ½ INCH HOT
 Master switchON
 Alternator switchON
 Fuel pumpON

Prime3-5 SECS IF **COLD**
 2 SECS IF **WARM**, 0 SECS IF **HOT**

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
 RadiosSET
 ATISCHECK
 Flight instruments SET
 Navigation SET FLT PLAN
 Radio CLNC / GROUND / CTAF
 #2 Radio MONITOR 121.5
 Lights AS APPROPRIATE

TAXI

Parking Brake RELEASE
 Brakes CHECK
 Flight instruments CHECK

ENGINE RUNUP

BrakesSET & HOLD
 Oil Temp IN THE GREEN
 Fuel selector OTHER TANK
 Mixture (below 5000') RICH
 Throttle 2000 RPM
 Mags (Max drop 175, diff 50)CHECK
 Vacuum (4.8-5.2") CHECK
 Engine gauges CHECK
 Annunciator panel TEST
 Load meter CHECK ALL
LIGHTS, FUEL PUMP, & PITOT HEAT ON then OFF

Carb heatON
 (Approx. 75 RPM drop - **NO RISE**)
 Carb heat OFF
 Throttle (min 500 RPM) IDLE
 Throttle 1000 RPM
 Flight controls CHECK

BEFORE TAKEOFF

Trims **ELEVATOR & RUDDER** TAKEOFF
 Door 2 latches & Window SECURE
 Fuel pump ON
 Pitot heat AS REQUIRED
 Flight instruments CHECK
 Flaps NORMAL 0°, SHORT/SOFT 25°
 Seats & seat belts UPRIGHT & SECURE
 Takeoff briefing COMPLETE
 Radio TOWER/CTAF
 #2 Radio MONITOR 121.5
 Transponder 1200 or assigned
 Mixture..... RICH
 Lights **WHEN CLR'D FOR TAKEOFF** ... AS APPROPRIATE

FREQUENCIES

HANSCOM - KBED

ATIS124.6
 GROUND121.7
 TOWER118.5
 BOS APP124.4
 Signature (or 781-274-0010).....130.8

PRACTICE AREA - ALL123.5

NORWOOD - KOWD

ATIS119.95
 GROUND121.8
 TOWER126.0
 BOS APP 120.6 / 124.1

EMERGENCY (GUARD)..... 121.5

NASHUA - KASH

ATIS125.1
 GROUND121.8
 TOWER133.2
 BOS APP124.9

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

FlapsRETRACT AT SAFE SPEED (65KIAS)
 Airspeed (cruise climb) ... 87KIAS/500'/MIN
 Fuel pump OFF CHECK PRESSURE
 Oil pressure & Temp CHECK

CRUISE

PowerAS REQUIRED
 Mixture.....LEAN AS REQUIRED

FUEL TANK SWITCH

Place to land in emergencyIDENTIFY
 Fuel pump ON
 Fuel selector DESIRED TANK
 Fuel pump OFF
 Fuel pressure CHECK

DESCENT

Fuel Pump ON
 Fuel Selector FULLEST TANK
 Power AS REQUIRED
 Mixture ENRICH / AS REQUIRED
 Carb heat AS REQUIRED
 Seats & seat belts UPRIGHT & SECURE

APPROACH & LANDING

Downwind 90 KTS
 Fuel pumpON
 Fuel selector FULLEST TANK
 Mixture (below 5000') RICH
 Carb heat (if on) OFF SHORT FINAL
 Flaps (<103 KIAS)AS REQUIRED
 Landing (0°) 70 KIAS
 Landing (40°) 63 KIAS

AFTER LANDING

RPM 1000
 Radio GROUND/CTAF
 Lights AS APPROPRIATE
 Flaps RETRACT
 Fuel pump OFF
 Carb heat OFF
 MixtureLEAN
 Pitot Heat OFF
 Transponder 1200

SHUTDOWN

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

WHEN PROP STOPS

Magnetos..... OFF
 KEY OUT / ON CONSOLE
 Electrical switches OFF
 StrobesLEAVE ON
 Master & Alt switches OFF
 Hobbs & tach RECORD
 Flight controls SECURE
 PARKING BRAKE RELEASED
 Tie downs SECURE (Chocks - if no tie downs)
 Cover ON

SPEEDS

Vr (0°/25°) 55/52 KIAS
 Vg (0° Flaps)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

AIRPLANE SPECS

Usable fuel Tabs 34g / Full 48g
 Taxi fuel 1.0g
 Climb fuel 12.0 GPH
 Max Crosswind17 KTS
 Cruise 3000' @ 65%2320 RPM /103KTS

EMERGENCY PROCEDURES

NOTE: NOT ALL EMERGENCY PROCEDURES ARE HERE
 Check POH for additional procedures

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
 Mixture CUTOFF
 Throttle OPEN
 Fuel pump OFF
 Fuel selector OFF
Evacuate to rally point

ENGINE POWER LOSS IN FLIGHT

Fuel selector FULLEST TANK
 Fuel pump ON
 Mixture RICH
 Carb heat ON
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 73 KIAS
 Landing area IDENTIFY
 ELT ACTIVATE
 Radio 121.5 / TOWER / APCH..... MAYDAY
 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 heatOFF
 MixtureADJUST TO SMOOTHTEST
 Fuel pump ON
 Fuel selectorSWITCH TANKS
 Engine gaugesCHECK
 MagnetosCHECK/SELECT SMOOTHTEST
 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

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

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