

United Flight Systems



N41535 – Warrior PA-28-151

NORMAL OPERATIONS

BEFORE START ENGINE

HOBBS.....RECORD
 PREFLIGHT INSPECTION COMPLETE
 A.R.R.O.W. CHECK
 AIRPORT DIAGRAMAVAILABLE
 PASSENGER BRIEF S.A.F.E.T.Y.
Seat & Seat Belts, Air, Fire, Exit/Emergencies, Traffic & Talking, Your Questions?
 SEATS & SEAT BELTS LOCKED / FASTENED
 MASTER (bat & alt) OFF
 AVIONICS MASTER OFF
 FUEL SELECTOR LEFT or RIGHT
 FRESH AIR FAN OFF
 CIRCUIT BREAKERS CHECK
 CARB HEAT OFF
 THROTTLECLOSED
 MASTER (bat & alt) ON
 BEACON ON
 NAV LIGHTS..... AS REQ

ENGINE START (Hot Start)

BRAKES..... SET / HOLD
 MIXTURERICH / FULL FWD
 THROTTLE Open 1/2 In.
 FUEL PUMP ON / CHECK PRESSURE
 BRAKES..... HOLD
 PROP AREA..... CLEAR
 STARTER..... (8-10 seconds max) ENGAGE
If engine fails to start, consider primer(3 max) or flooded start

WHEN ENGINE STARTS

THROTTLE 1000 – 1200 RPM
 OIL PRESSURE CHECK
 FUEL PUMP OFF
 FUEL FLOW..... CHECK
 MIXTURELEAN
 Check GPS CHECK

AFTER START

AVIONICS MASTER ON
 FRESH AIR FAN / HEATER / DEFROST AS REQ
 HEADSETS ON / CHECK
 ALTERNATOR OUTPUTCHECK
 GPS / CDI.....CHECK
 GPS DATABASE CURRENCY CHECK / ENT
 COMS SET / ATIS
 ALTIMETERSSET
 CLEARANCE (If IFR).....OBTAIN
 GPS.....ENTER WPT/FPL/APR AS REQ
 NAVS SET / COURSE
 FLIGHT INSTRUMENTSCHECK / SET
 TRANSPONDER SET CODE / ALT MODE
 FLAPSCHECK / UP

TAXI

Do Not Ride Brakes

AIRPORT DIAGRAMAVAILABLE
 TAXI CLEARANCE OBTAIN / BRIEF
 TAXI AREA (left & right) CLEAR
 BRAKES..... RELEASE / CHECK
 FLIGHT INSTRUMENTSCHECK

Check in turns.

STERILE COCKPITNO NONESSENTIAL TALKING

Pre-Takeoff Emergency Brief

Engine Failure on runway
 THROTTLE..... IDLE
 BRAKES..... APPLY
 STOP STRAIGHT AHEAD
 Engine Failure After Rotation
 THROTTLE..... IDLE
 PITCH FOR BEST GLIDE 73
 CONTINUE STRAIGHT AHEAD
 At or above 1000ft AGL – Turn around point
 TURN TO AIRPORT

RUN UP

BRAKES SET / HOLD
 FUEL PUMP ON
 FUEL GAUGES / QTY.....CHECK
 FUEL SELECTOR.....SWITCH TANKS

CONFIRM BOTH TANKS ARE WORKING

MIXTURE FULL FWD
 THROTTLE2000 RPM
 MAGNETOS..... (175 max drop, max diff. 50) CHECK
 OIL TEMPERATURE & PRESSURE.....CHECK
 VACUUM..... 5.0 Hg +/- 0.1
 ANNUNCIATOR PANEL.....TEST
 AMPSCHECK
 FUEL PUMP OFF
 FUEL PRESSURE.....CHECK
 CARB HEAT ON
 THROTTLE IDLE
 CARB HEAT OFF
 THROTTLE 1000 RPM
 MIXTURE LEAN
 FLIGHT CONTROLS FREE / CORRECT
 TRIMSET

BEFORE TAKEOFF

****TAKE OFF / EMERGENCY PLAN** BRIEF**
 FUEL SELECTOR..... (FULLEST TANK) PROPER TANK
 FLIGHT INSTRUMENTSCHECK
 ENGINE GAUGESCHECK
 PRIMER LOCKED
 MASTER SWITCH.....CONFIRM ON
 FUEL PUMP ON / CHECK PRESSURE

START 30 MINUTE TIMER

CARB HEAT OFF
 FLAPSVERIFY SET
 SEATBACKSSECURE
 SEATS & SEAT BELTS LOCKED / FASTENED

Final Items When #1 for Takeoff

DOOR CLOSE / LOCKED
 LANDING LIGHT ON
 STROBE ON
 TRANSPONDER VERIFY ALT / SET
 MIXTURESET

TAKE OFF

THROTTLE..... FULL
 ROTATE 44-55 KTS
 YOKE..... APPLY BACK PRESSURE / ESTABLISH CLIMB
 CLIMB..... 70 - 80 KTS
 V_X - 63 KTS / V_Y - 75 KTS

AFTER TAKEOFF(above 1000 feet)

CRUISE CLIMB 70-80 KTS
 THROTTLE..... FULL
 FLAPS UP CHECK

CRUISE

THROTTLE..... SET
 2300-2400 RPM LOCAL / 75% BHP FOR XC
 ENGINE / SYSTEM INSTRUMENTS CHECK
 FUEL SELECTOR PROPER TANK
 FUEL PUMP OFF / CHECK PRESSURE
 LANDING LIGHT..... OFF
 MIXTURE LEAN

V Speeds	KDWH Frequencies
V _R 50	Ground 121.8
V _Y 75	Tower 118.4
V _X 63	Unicom 122.95
V _{FE} 103	West Practice.. 123.5
V _A 111	ATIS..... 128.375
V _{NO} 126	Hou App NW... 119.7
V _{NE} 160	Hou App SW ... 123.8
V _G 73	Max Demo Xwind..17

DESCENT(for XC use)

ATIS / AWOSCHECK
 APPROACH BRIEFINGCOMPLETE
 ALTIMETER.....SET
 CARB HEAT AS REQ
 THROTTLE AS REQ
 MIXTURE SLIGHTLY ENRICH

APPROACH (15NM FROM AIRPORT)

ATIS / AWOSCHECK
 APPROACH BRIEFINGCOMPLETE
 ALTIMETER.....CHECK
 FUEL PUMP ON
 FUEL SELECTOR.....PROPER TANK
 MIXTURE SLIGHTLY ENRICH
 PARKING BRAKE OFF
 LANDING LIGHT..... ON
 When direct to IAF or Vectored
 FLIGHT & NAV Instruments..... SET / IDENT
 CDI KEY VLOC / GPS
 AIRSPEED 90 KTS

BEFORE LANDING CHECKLIST

G.U.M.P.S.

FUEL SELECTOR.....PROPER TANK
 MIXTURESET FOR ALT / FULL RICH
 FUEL PUMP ON
 CARB HEAT ON
 POWER..... AS REQ
 SEAT BELTS / SWITCHES.....CHECK
 FLAPS (V_{FE} 103) AS REQ

GO AROUND / MISSED APPROACH

“Cram, Climb, Clean, Click, Call”

THROTTLE FULL FWD
 CARB HEAT OFF
 FLAPS 25 IMMEDIATELY
 PITCH 60 KTS / PITCH FOR CLIMB
 FLAPS 10 POS RATE, OBST CLEARED, 70 KTS
 FLAPS UP AFTER REACHING SAFE ALT 76 KTS
 Fly assigned or published heading & altitude

AFTER LANDING

When aircraft is stopped

GROUND OR ASSIGNED FREQ.....CHECK
 FLAPS UP
 CARB HEAT..... OFF
 FUEL PUMP OFF
 MIXTURE LEAN
 STROBE..... OFF
 LANDING LIGHT OFF
 TAXI CLEARANCE..... OBTAIN / BRIEF

SHUTDOWN

CALL FOR FUEL @ KDWH 122.95
 TRANSPONDER 1200 / VFR
 AVIONICS MASTER..... OFF
 THROTTLE 1000 RPM
 MIXTURECUTOFF
 When Propeller stops
 MAGNETOS..... OFF
 MASTER SWITCH..... OFF
 ELECTRICAL SWITCHES..... OFF
 HOBBS / TACH..... RECORD

Secure aircraft, tiedown and walk around.

Note and record squawks

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This checklist is for reference. It is not intended to replace the POH / AFM.

United Flight Systems



PIPER WARRIOR - PREFLIGHT

CABIN

Walk up to aircraftINSPECT FOR DAMAGE
Oil Level..... CHECK
Pitot Tube Cover REMOVE
HOBBSRECORD
POHIN-AIRCRAFT
UFS clip board and keysIN-AIRCRAFT
Check ListIN-AIRCRAFT
Air Worthiness Certificate.....IN-AIRCRAFT
Registration.....IN-AIRCRAFT
GPS Reference GuideIN-AIRCRAFT
Weight and Balance CHECKED
Parking Brake SET
Control Wheel..... RELEASE BELTS
Magneto Switch OFF
Avionics Switch OFF
Circuit Breakers.....IN

POWER

Master Switch (Batt) ON
Fuel Qty (R & L) CHECK
Avionics..... ON
Avionics Fan (If Installed) VERIFY ON
GPS data base VERIFY CURRENT
Avionics Switch OFF
Annunciator Panel..... TEST
Beacon ON
Navigation Lights..... ON
Taxi/Landing Lights ON
Pitot Heat ON

VERIFY LIGHTS, PITOT HEAT, STALL WARNING

POWER - CONTINUED

Navigation Lights OFF
Taxi/Landing Lights OFF
Pitot Heat..... OFF
Master Switch OFF
Elevator Trim Control..... TAKEOFF
Fuel Selector Valve.....LEFT or RIGHT
Alternate Static Air ValveCHECK FORWARD
Fire ExtinguisherCHECK
Flaps (Extend One Notch at a Time) EXTEND

RIGHT WING

FlapCHECK
AileronCHECK
Wing Tip.....CHECK
Leading EdgeCHECK
Fuel Quantity CHECK VISUALLY
Fuel Filler Cap SECURE
Right Tire.....CHECK
Right Brake.....SECURE
Right Brake Line NO LEAKS
Right Main Gear Strut (4.5 in. proper inflation)SECURE
Right Wing Fuel Sump..... DRAIN
Right Wing Tiedown..... REMOVE and STOW
Right Wing Cabin Air IntakeCHECK

NOSE

CowlingCHECK / SECURE
Engine Oil Dipstick/Filler CapCHECK
Engine Cooling Air Inlets CLEAR
Prop and SpinnerCHECK
Alternator Belt CHECK TENSION
Nosewheel Strut and Tire (3.25 in. inflation)CHECK
Air Intake.....CHECK
Nose Sump (pilot side)..... DRAIN
Windscreen.....CHECK (CLEAN)

LEFT WING

Left Wing Cabin Air IntakeCHECK
Fuel QuantityCHECK VISUALLY
Fuel Filler Cap SECURE
Left Tire.....CHECK
Left Brake..... SECURE/WEAR INDICATOR
Left Brake LineNO LEAKS
Left Main Gear Strut (4.5 in. inflation)SECURE
Left Wing Fuel Sump.....CHECK
Left Wing Tiedown..... REMOVE and STOW
Pitot TubeCHECK
Leading Edge.....CHECK
Wing Tip.....CHECK
AileronCHECK
FlapCHECK

LEFT FUSELAGE

Body STRAIGHT
COM/GPS/VOR AntennasCHECK
Data PlateCHECK

RUDDER

Stabilator / Trim.....CHECK
Tail Tiedown REMOVE
RudderCHECK

RIGHT FUSELAGE

Body STRAIGHT
Baggage Door SECURE

N41535 – PIPER WARRIOR

EMERGENCY PROCEDURES

ENGINE FIRE DURING START ON GROUND

IF ENGINE HAS NOT STARTED

MIXTURE..... IDLE CUTOFF
THROTTLE..... OPEN
STARTER..... CRANK
ELECTRIC FUEL PUMP/Fuel Selector..... OFF

ABANDON IF FIRE CONTINUES

ENGINE FIRE IN FLIGHT

SOURCE OF FIRE..... CHECK

ELECTRICAL FIRE

MASTER SWITCH..... OFF
VENTS..... OPEN
CABIN HEAT..... OFF

LAND AS SOON AS PRACTICABLE

ENGINE FIRE

FUEL SELECTOR..... OFF
THROTTLE..... CLOSED
MIXTURE..... IDLE CUTOFF
ELECTRIC FUEL PUMP..... OFF
HEATER and DEFROSTER..... OFF
(PROCEED WITH POWER OFF LANDING PROCEDURE)

ENGINE POWER LOSS DURING TAKEOFF

SUFFICIENT RUNWAY REMAINING

LAND STRAIGHT AHEAD

INSUFFICIENT RUNWAY REMAINING

- MAINTAIN SAFE AIRSPEED
- MAKE ONLY SHALLOW TURNS TO AVOID OBSTRUCTIONS
- FLAPS AS SITUATION REQUIRES

SUFFICIENT ALTITUDE GAINED

MAINTAIN SAFE AIRSPEED

FUEL SELECTOR..... FULLEST FUEL TANK
ELECTRIC FUEL PUMP..... CHECK ON
MIXTURE..... CHECK RICH
CARB HEAT..... ON
Primer..... CHECK LOCKED
(If Power is Not Regained, Proceed with Power Off Landing)

ENGINE POWER LOSS IN FLIGHT

BEST GLIDE..... 73 KIAS
FUEL SELECTOR..... FULLEST FUEL TANK
ELECTRIC FUEL PUMP..... ON
MIXTURE..... RICH
CARB HEAT..... ON
ENGINE GAUGES..... CHECK
(for indication of cause of power loss)
Primer..... CHECK LOCKED
(If NO fuel pressure is indicated, check tank selector position to be sure it is on a tank containing fuel)

WHEN POWER IS RESTORED

CARB HEAT..... OFF
ELECTRIC FUEL PUMP..... OFF
(if power is NOT restored, prepare for a power off landing)

TRIM FOR 73 KIAS

POWER OFF LANDING

FLY TO SUITABLE LANDING FIELD

BEST GLIDE..... 73 KIAS
Ignition Switch..... OFF
Master Switch..... OFF
Fuel Selector..... OFF
Mixture..... IDLE CUTOFF
Seatbelt and Harness..... TIGHT
Doors..... UNLATCH PRIOR TO TOUCHDOWN

LOSS OF OIL PRESSURE/HIGH OIL TEMP

Land as soon as possible and investigate the cause. Prepare for power off landing.

LOSS OF FUEL PRESSURE

Electric Fuel Pump..... ON
Fuel Selector..... CHECK ON FULL TANK

ALTERNATOR FAILURE

VERIFY FAILURE..... ALT ANNUNCIATOR ILLUMINATED

AMMETER SHOWS ZERO

Alt Switch..... OFF
REDUCE ELECTRICAL LOAD AS MUCH AS POSSIBLE
Alternator Circuit Breakers.. CHECK & RESET
Alt Switch..... ON

IF POWER NOT RESTORED

Alt Switch..... OFF
*REDUCE ELECTRICAL LOAD and
LAND AS SOON AS POSSIBLE*

ENGINE ROUGHNESS

CARB HEAT..... ON
IF ROUGHNESS CONT. AFTER 1 MINUTE
CARB HEAT..... OFF
MIXTURE..ADJUST FOR MAX SMOOTHNESS
ELECTRIC FUEL PUMP..... ON
FUEL SELECTOR.....SWITCH TANKS
ENGINE GAUGES..... CHECK
MAGNETO SWITCH...“L” then “R” then BOTH

If operation is satisfactory on either one, continue on that MAG at reduced power and full “RICH” mixture to first airport.

PREPARE FOR POWER OFF LANDING

SPIN RECOVERY

Throttle..... IDLE
Ailerons..... NEUTRAL
Rudder..... FULL OPPOSITE
to direction of rotation
Control Wheel..... FULL FORWARD
(to break stall)
Rudder..... NEUTRAL (when rotation stops)
Control Wheel..... AS REQ TO SMOOTHLY
REGAIN LEVEL FLIGHT ATTITUDE