



PIPER WARRIOR II

PA-28-161

v24.3

PREFLIGHT INSPECTION

INTERIOR INSPECTION

- Hobbs/Tach TimesRECORDED
- Documents (AROW)CHECKED
- Circuit BreakersCHECKED IN
- Carb HeatOFF
- All Electrical SwitchesOFF
- Throttle/Mixture ...IDLE/CUTOFF
- IgnitionOFF/KEY ON DASH
- Master SwitchON
 - Fuel QuantityCHECKED
 - Lights/Pitot HtCHECKED
 - Stall Warning.....CHECKED
- Master Switch.....OFF
- Fuel SelectorLOWEST TANK
- Fire Ext/Safety EquipAS REQ
- Empty SeatsITEMS STOWED
- WindscreenCHECKED
- FlapsEXTENDED

EXTERIOR INSPECTION

- Right Wing
 - Flaps/AileronCHECKED
 - Fuel QuantityVERIFIED
 - Fuel SumpDRAINED
 - Fuel VentCHECKED
 - Gear/BrakesCHECKED
 - Mount Strut (4.5") CHECKED
 - Tire PressureCHECKED
- Nose / Engine
 - Oil (6-8 QT)CHECKED
 - Engine CowlingSECURED
 - Prop / SpinnerCHECKED
 - Alt Belt/Flywheel ..CHECKED

- Tire PressureCHECKED
 - Nose Strut (3.25") ..CHECKED
 - Air InletsCLEAR
 - Brake FluidCHECKED
 - Engine CowlingSECURED
 - Fuel SumpDRAINED
- Left WingPERFORM R WING
 - Pitot MastCHECKED
 - L Fuselage/Antennas ...CHECKED
 - EmpennageCHECKED
 - R Fuselage/Antennas ...CHECKED
 - UnderbellyCHECKED
 - Baggage CompLOCKED

BEFORE STARTING ENGINE

- Pax Brief (S.A.F.E.T.Y.)COMPLETE
- FlapsRETRACTED/UP
- Seatbelts/Harnesses ...FASTENED
- Anti Collision / Beacon LtON
- BrakesHOLD

STARTING ENGINE

- Aircraft KeyINSERTED
- COLD START: Prime2 STROKES
- MixtureFULL RICH
- Master SwitchON
- Fuel PumpON/CHK PRESSURE
- ThrottleOPEN 1/4"
- Propeller AreaCLEAR
- Ignition SwitchSTART
- Throttle1000 RPM
- Oil PressureCHECK
- MixtureLEAN
- Fuel PumpOFF

BEFORE TAXI

- Radios/AvionicsON/SET
- TransponderSET/ALT MODE
- Flight InstrumentsCHECKED
- Nav/Taxi LightsON
- Brakes & Pkg BrakeRELEASED

TAXI

- BrakesCHECKED
- Flight InstrumentsCHECKED

RUN-UP

- Flight Controls ...FREE / CORRECT
- Fuel SelectorSWITCH TANK
- PrimerIN AND LOCKED
- MixtureFULL RICH
- Throttle2000 RPM
 - Mags (175↓/50 Δ) ...CHECKED
 - Carb HeatON / CHECKED
 - AmmeterCHECKED
 - Vacuum (4.9-5.1")AS REQ
 - Eng Instruments ..GREEN ARC
- ThrottleCHK IDLE / 1000 RPM
- Carb HeatOFF / CHECKED
- Throttle Friction LockSET
- MixtureLEAN
- Rados/Avionics/NavSET
- Departure BriefCOMPLETED

BEFORE TAKEOFF (Holding Short)

- Door / WindowSECURED
- TransponderSET/ALT MODE
- Carb HeatOFF
- Landing Lt / Pitot Ht ..ON/AS REQ
- Fuel PumpON
- MixtureRICH
- PrimerIN / LOCKED
- Flaps ...0 NORM // 25 SHORT/SHORT
- Trim (Rudder/Elev)SET TWICE
- InstrumentsCHECKED

TAKEOFF

- ThrottleFULL (3 SECONDS)
- Engine InstrumentsCHECKED
- V_R / V_X / V_Y55 / 63 / 79 KIAS

CLIMB (>500' AGL)

- FlapsUP
- InstrumentsCHECKED
- Fuel PumpOFF / CHK PRES

CRUISE

- PowerSET (per AFM/POH)
- MixtureAS REQ
- Engine InstrumentsCHECKED
- Landing LightAS REQ

PRE-MANEUVER

- Clearing TurnsCOMPLETED
- MixtureFULL RICH
- Fuel PumpON
- Fuel SelectorPROPER TANK
- Landing LightON

DESCENT

- Fuel SelectorPROPER TANK
- Power/MixtureAS REQ
- Destination Info / WX ..RECEIVED
- Approach Briefing ...COMPLETED
- InstrumentsCHECKED

BEFORE LANDING

- Fuel PumpON
- PrimerIN / LOCKED
- MixtureFULL RICH
- Landing LightON
- Seatbelts/Harnesses ...FASTENED

AFTER LANDING (Clear of Runway)

- FlapsUP
- Fuel PumpOFF
- Carb HeatOFF
- MixtureLEAN
- Landing Lt / Pitot HtOFF

ENGINE SHUTDOWN

- Radios/AvionicsOFF
- Throttle1200 (10sec) / 1000
- MixtureIDLE CUTOFF
- IgnitionOFF / KEY ON DASH
- Master SwitchOFF

SECURING

- Hobbs/Tach TimesRECORDED
- CabinCLEAN
- Cover/Cowl PlugsINSTALLED
- Chocks/Tie DownsINSTALLED
- Postflight InspCOMPLETED
- DiscrepanciesRECORDED

S/N: 28-77x – 28-82x
This checklist constitutes partial information
and is not a substitute for the AFM/POH

ENGINE FAILURES

ENGINE FAILURE - TAKEOFF ROLL

1. ThrottleIDLE
2. BrakesAPPLY
3. MixtureIDLE CUTOFF

ENGINE FAILURE AFTER TAKEOFF

1. Airspeed (V_G) (FLAPS UP) .73 KIAS
2. Pwr-Off / Forced Ldg ...EXECUTE

IF TIME & ALTITUDE ALLOW

3. Fuel SelectorPROPER TANK
4. Fuel PumpON
5. MixtureRICH
6. Carb HeatON
7. IgnitionBOTH/START
8. Pwr-Off / Forced Ldg ...EXECUTE

ENGINE FAILURE DURING FLIGHT

1. Airspeed (V_G) (FLAPS UP) .73 KIAS
2. Landing Area .SELECTED/DIRECT
3. Fuel SelectorPROPER TANK
4. Fuel Pump.....ON
5. MixtureRICH
6. Carb HeatON
7. Eng InstrumentsCHECKED
8. IgnitionBOTH/START
9. Pwr-Off / Forced Ldg....EXECUTE

POWER-OFF / FORCED LANDING

1. Airspeed (V_G) (FLAPS UP) .73 KIAS
2. Landing Area .SELECTED/DIRECT

WHEN COMMITTED TO LANDING

3. MixtureIDLE CUTOFF
4. Master SwitchOFF
5. Mags (Ignition)OFF
6. Fuel Selector ValveOFF
7. SeatbeltsTIGHT
8. FlapsAS REQ'D

ABNORMAL OIL PRES / TEMP

1. PowerMINIMUM REQUIRED
2. Eng InstrumentsMONITOR
3. Pwr-Off / Forced Ldg ...PREPARE

LOSS OF FUEL PRESSURE

1. Fuel PumpON
2. Fuel SelectorFULLEST TANK

FIRES

ENGINE FIRE DURING START

1. StarterCONTINUE TO CRANK
2. MixtureIDLE CUTOFF
3. ThrottleOPEN
4. Fuel PumpOFF
5. Fuel SelectorOFF
6. EGRESS AIRCRAFT

ENGINE FIRE DURING FLIGHT

1. Fuel Selector ValveOFF
2. ThrottleIDLE
3. MixtureIDLE CUTOFF
4. Fuel PumpOFF
5. Heater/DefrosterOFF
6. Pwr-Off / Forced LdgPREPARE

ELECTRICAL FIRE / SMOKE IN CABIN

1. Master SwitchOFF
2. VentsOPEN
3. Cabin HeatOFF
4. All Electrical EquipOFF

IF FIRE APPEARS OUT & PWR REQ'D

5. Master.....ON
6. Circuit Breakers.....CHECKED
7. Critical EquipON (1 at a time)

ELECTRICAL

ALTERNATOR FAIL

1. AmmeterTEST / APPLY LOAD
2. Electrical LoadREDUCE
3. Alt Circuit BreakerCHECK
4. Alt SwitchRECYCLE 1 SEC

ANNUNCIATOR ON, OR ZERO AMPS

5. Alternator SwitchOFF
6. Non-Essential Elec EquipOFF
7. FlightTERMINATE

SPIN RECOVERY

1. Power (Throttle)IDLE
2. AileronsNEUTRAL

WHILE SIMULANEOUSLY

3. Rudder .FULL OPPOSITE OF SPIN
4. ElevatorFWD OF NEUTRAL

WHEN ROTATION STOPS

5. RudderNEUTRAL
6. ElevatorAS REQ'D FOR LVL FLT

INADVERTENT ICING ENCOUNTER

1. Pitot HeatON
2. Cabin Heat / DefrostMAX
3. Icing ConditionsEXIT
4. Power/Carb Heat ..INCREASE/ON
5. MixtureLEAN
6. No-Flap LandingEXECUTE

LOST COMMS (NORDO)

1. FlightFIND/MAINTAIN VMC
2. Radio(s)CHECK VOLUME
3. Headset(s)CHECK
4. Circuit BreakersCHECK
5. Alternator Switch.....RECYCLE

ENGINE ROUGHNESS

1. Carb HeatON
2. MixtureADJUST
3. Fuel PumpON
4. Fuel SelectorSWITCH TANKS
5. Eng InstrumentsMONITOR
6. MagnetosCHECK L/R/BOTH

CLEANING FOULED SPARK PLUGS

1. Throttle2300 RPM
2. MixtureLEAN (60 SEC)
3. MixtureFULL RICH
4. MagnetosCHECK L/R/BOTH

OPEN DOOR

1. AirspeedBELOW 100 MPH
2. Cabin VentsCLOSED
3. Storm WindowOPEN
4. If Latches OpenLATCH

PERFORMANCE DATA

V SPEEDS (KIAS)

Stall, Flaps DOWN	V _{SO}	44
Stall, Flaps UP	V _{SI}	50
Rotation	V _R	55
Best Angle	V _X	63
Best Rate	V _Y	79
Best Glide	V _G	73
Max Flap Extend	V _{FE}	103
Maneuvering	V _A	111
Max Structural Cruise	V _{NO}	126
Never Exceed	V _{NE}	160
Max Demo Crosswind (KTS)		17 KT

Source: PA28-161 POH / 2A13_R63

PA28-161 SPECIFICATIONS

	SPECIFICATION	
WEIGHTS	MAX T/O WEIGHT (NORM)	2325#
	MAX T/O WEIGHT (UTIL)	2020#
	MAX BAGGAGE	200#
FUEL AND OIL	USEABLE / TOTAL	48 / 50 GAL
	FUEL TYPE	100LL
	75% BEST PWR	10.0 GAL/HR
	55% BEST PWR	7.8 GAL/HR
	OIL CAPACITY (QT)	8 (6 USEABLE)
AIRCRAFT	TIRE PSI (NOSE/MAIN)	30 / 24
	BATTERY	12 VDC / 25 Ah
	ALTERNATOR	14 VDC / 60 Ah

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