

Normal/Abnormal/Emergency Checklists

Revision 08 - 05/10/2023

PIPER WARRIOR II PA-28-161

PREFLIGHT

Pitot Mast CoverRemoved	
Cabin:	
Documents Checked	
Control LocksRemoved	
Parking BrakeSet	
Avionics & Aspen MasterOFF	
Master SwitchON	
Electric Fuel PumpCheck	
Fuel Quantity GaugesCheck	
Magneto SwitchOFF	
Pitot Heat (IFR)ON	
Aircraft LightsON	
Exit Aircraft and Quickly Complete:	
Stall Warning HornCheck	
Pitot Heat (IFR)Check	
Aircraft LightsCheck	
Pitot HeatOFF	
Aircraft LightsOFF	
Master SwitchOFF	
Flaps Extended Full	
Pitch Trim ControlTakeoff	
T KON THIN CONTROL	
Right Wing:	
FlapsCheck	
Aileron Check	
Surface Condition Check	
Wing Tie DownDisconnect	
Main Wheel TireCheck	
Brake Pad/DiscCheck	
Fuel QuantityCheck	
Fuel Tank Sump DrainsDrain	
Fuel Filler CapSecure	
THIS CHECKLIST MUST REMAIN IN AIRPLANE	٦ ا

ENGINE START

	ENGINE STAF	RT	
	Cold: Throttle	ON	
*	Hot: Throttle	ON ON ON Rich	
	Flooded: Throttle	ON OFF OFF OFF OFF OFF OFF OFF OFF OFF O	
	AFTER START		
	Tachometer	As RequiredAs RequiredAs RequiredCheck LockedCheck	

TransponderALT and "SET"

BEFORE 1	AXI	Nose:	
		Surface Condition	
ATIS/AWOS/ASOS		Engine Oil (<i>Minimum 6 Quart</i>	s) Check
Altimeter(s)		Engine Cooling Air Inlets	
Heading Indicator		Propeller and Spinner	
Radio Check	Completed	Nosewheel Strut and Tire	Check
Aircraft Lights	As Required	Chocks	Removed
Seat and Seatbelts	Secure		
Taxi Briefing	Completed	Left Wing:	
Parking Brake	Release	Fuel Quantity	Check
Brakes	Checked	Fuel Filler Cap	Secure
RUN-U	P	Fuel Tank Vent Tab	Check
		Main Wheel Tire	Check
Parking Brake		Brake Pad/Disc	Check
Flight Controls		Fuel Tank Sump Drains	Drain
Flight Instruments	Check	Wing Tiedown	Disconnect
Annunciator Panel	Check	Stall Warning Opening	Check
Fuel Selector	Fullest Tank	Pitot Mast	Check
Pitch Trim Control	Takeoff	Static Source	Check
Primer	In & Locked	Aileron	Check
Mixture	Rich	Flaps	Check
Throttle	2000RPM	Surface Condition	Check
Magnetos	Check L & R		
Oil Pressure/Temperature	Check	Empennage:	
Fuel Pressure	Check	Surface Condition	Check
Carburetor Heat	Check	Tail Tiedown	Disconnect
Suction Gauge	Check	Control Surfaces	Check
Circuit Breakers	Check	Stabilator Anti-Servo Tab	Check
Ammeter	Check	Antennas	Check
Throttle	Check Full Idle	Baggage Compartment Door	Locked
Throttle	1000RPM		
Throttle Friction Lock	Adjust	Final Walk Around:	
		Chocks	Removed
BEFORE TAI	KEOFF	Fuel Caps	Secure
		Engine Air Inlet Covers	Removed
Flaps		Pitot Mast Cover	Removed
Mixture	•	Baggage Door	Closed and Locked
Electric Fuel Pump		BEFORE ST	FADT
Pitot Heat		BEFORE 31	ARI
COM/NAV Frequency	Set	Passenger Briefing	Completed
Transponder		Seat and Seatbelts	-
Cabin Door/Windows		Hobbs and Tach Time	Verify
Takeoff Briefing/Time		Brakes	Test
Brakes		Circuit Breakers	Check In
Landing Light	ON	Avionics & Aspen Master	OFF
		Carburetor Heat	OFF
CLIMB		Flaps	Up
		Parking Brake	Set
Airspeed79 KIAS		Alternate Static	
Mixture	•	Fuel Selector	Desired Tank
Flaps			
Engine Gauges	Checked		

CRUISE

Throttle	2000-2700 RPM
Mixture	As Required
Electric Fuel Pump	OFF
Engine Gauges	Check
Landing Light	OFF

DESCENT

Throttle	As Required
Mixture	Adjust
Landing Light	ON
ATIS/AWOS/ASOS	Obtain
Altimeter(s)	Set

BEFORE LANDING

Seat and Seatbelts	Check Secure
Fuel Selector	Fullest Tank
Mixture	Rich
Electric Fuel Pump	ON
Carburetor Heat	As Required
Approach Briefing	Complete

AFTER LANDING

Flaps	Retracted
Mixture	As Required
Electric Fuel Pump	OFF
Aircraft Lights	As Required
Pitot Heat	OFF
Carburetor Heat	OFF
Pitch Trim Control	Takeoff

SHUTDOWN

CHOID	
Parking Brake	On
Throttle	1000RPM
ELT	. Silent on 121.500MHz
Transponder	ALT and "1200"
Avionics & Aspen Master	OFF
Mixture	Idle Cut-Off
Magneto Switch	. Off and Key Removed
Master Switch	OFF
Hobbs and Tach Time	Record
Final Walk-Around:	
Control Lock	Install
Engine Air Inlet Covers	Install
Pitot Tube Cover	
Chocks	Install
Parking Brake	Release

REMOVE ALL PERSONAL BELONGINGS

Ensure the aircraft is left in a clean manner for the next pilot. Debris left can cause major damage.

DO NOT RUSH

ENGINE POWER LOSS DURING TAKEOFF

Throttle Land Brakes	ClosedStraight AheadApply
ATC/CTAF	

ENGINE POWER LOSS DURING FLIGHT

Airspeed73 KIAS
Suitable Place to LandIdentify
If Altitude Permits:
Fuel Selector Switch to Tank Containing Fuel
Electric Fuel PumpON
Mixture Rich
Carburetor HeatON
Engine Gauges Check
PrimerCheck Locked
MagnetosBoth

CAUTION: If no fuel pressure is indicated, check fuel selector to be sure it is on a tank containing fuel.

If Power is Restored:

Carburetor Heat Off
Electric Fuel Pump Off
If Power is NOT Restored:
Trim
LandProceed to Power Off Landing Procedure

POWER OFF LANDING

Suitable Place to LandIgnition	•
Master Switch	OFF
Fuel Selector	OF
Mixture	Idle Cut-Off
Seatbelt and Harness	Tight
Transponder	7700
Door	Open
Radio	Transmit
Flaps	As Desired
Passengers	Briefed
Airspeed (Upon Landing)	63 KIAS

FLY THE AIRPLANE

OPEN DOOR

If both upper and lower latches are open, the door will trail slightly open, and airspeeds will be reduced slightly

To close the door in flight:

Airspeed	89 KIAS
Cabin vents	
Strom window	Close
If upper latch is open	Latch
If side latch is open	Pull arm rest, move
Handle	to the latched position
If both latches are open	Latch side, then top

HIGH OIL TEMPERATURE

Land at nearest airport and investigate the problem. Prepare for power off landing.

ENGINE ROUGHNESS

Carburetor Heat	ON
If roughness contin	ues after one minute:
Carburetor 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 magneto at reduced power and full "Rich" mixture to first airport

ELECTRICAL OVERLOAD

Alternator over 20 AMPS above known load:		
ALT Switch	ON	
BATT Switch	OFF	
If Alternator Load Reduced:		
Electrical Load	Reduce to Minimum	
If Alternator Load is NOT Reduced:		
ALT Switch	OFF	
BATT Switch	As Required	

DO NOT RUSH

ENGINE FIRE DURING START

Ignition/Starter	Continue to Crank Engine Idle Cut-Off Open OFF
Tuoi Golodioi	

If Fire continues......Abandon Aircraft

ENGINE FIRE IN FLIGHT

Fuel Selector Throttle Mixture Electric Fuel Pump Heater and Defroster	OFF
Throttle	Closed
Mixture	Idle Cut-Off
Electric Fuel Pump	OFF
Heater and Defroster	OFF

If Fire continues:

Airspee	d	Increase
Land	Proceed to Power-Off Landing	Procedure

ELECTRICAL FIRE (SMOKE IN CABIN)

	Master Switch	OFF
	Vents	Open
	Master Switch Vents Heater and Defroster	OFF
l '		

Fire Extinguisher	Use As Needed
Emergency Descent	. Complete as Needed
Land	. As Soon As Practical

SPIN RECOVERY

Tl (1) -	01
I nroπie	Closed
Ailerons	Neutral
Rudder F	ull opposite to Direction of Spin
Control Wheel	Full forward
Rudder	Neutral (When Rotation Stops)
Control Wheel	As required for level flight

CARBURETOR ICING

Carburetor Heat	ON
Mixture	Adjust for max smoothness

LOSS OF FUEL PRESSURE

Electric Fuel Pump	ON
Fuel Selector	Check on Full Tank

FLY THE AIRPLANE

ELECTRICAL FAILURE

"ALT" Annunciator Light I	lluminated:
Ammeter	Check to Verify INOP

If Ammeter Shows Zero:

ALT Switch	OFF
Electrical Load	Reduce to Minimum
Alternator Circuit Breaker	Check and Reset
ALT Switch	ON

If Electrical Power is NOT Restored:

ALT SwitchOFF

CAUTION: If alternator output cannot be restored, reduce electrical loads and land as soon as practical. The battery is the only remaining source of electrical power. Land as soon as practical.

ASPEN EFD1000 AHRS FAIL

"CROSS CHECK ATTITUDE" Annunciator or Red "X" over Attitude indicator:

Maintain Flight	Straight and Level	
Menu Key	Press	
Right Knob Rotate Count	erclockwise to Page 1	
AHRS Menu Key (Key 5)	Push to request	
AHRS Menu Key (Key 5)	Push to confirm	
Menu Key	Press	
If annunciators or red "X" remains:		
Standby Attitude Indicator	Monitor	

ASPEN EFD1000 ADC FAIL

No Pitot Static information is displayed:

	1 /
Alternate Static	ON
Pitot Heat	ON
Standby Instruments	Monitor

ASPEN EFD1000 EXTERNAL POWER LOSS

Red "ON BAT XY% REM" is displayed.

Electrical Load.......Monitor

CAUTION: The EFD1000 internal battery will provide approximately 30 minutes of operation for the AHRS and display following loss of aircraft power. If aircraft power cannot be restored, the pilot should follow the electrical failure checklist.

IMPORTANT SPEEDS:

V _G	73 KIAS
V _R	55 KIAS
V _Y	79 KIAS
V _X	63 KIAS
	50 KIAS
	44 KIAS
	103 KIAS
V _{NO}	126 KIAS
V _{NE}	160 KIAS
V ₄	88-111 KIAS

PASSENGER BRIEFING:

Seatbelts/Harness

- Operation and Adjustment
- · Fastened for Taxi, Takeoff, and Landing

Emergency Exits

Location and Operation

Fire Extinguisher

Location and Operation

Sterile Cockpit

Flight Controls

Do not Block or Interfere

Emergency Procedures

TAXI BRIEFING:

Departure Runway

Anticipate Taxi Route

- · Taxiways to be use
- Intersecting Runways
- Run-Up area
- Hotspots

TAKEOFF BRIEFING:

Departure Runway

- Length/Distance Available
- Surface Condition
- Wind Direction/Speed

Lift-Off Speed/ Initial Climb Speed

Emergency Procedures

- On-Ground
- In-Air

Normal Departure Procedures

CAUTION: Always ensure that you have the most recent revision of this checklist. Always refer to the pilots operating handbook for specific procedures. Always choose the safest course of action.

THIS CHECKLIST MUST REMAIN IN AIRPLANE