

PA-28-161 Piper Warrior II Normal Checklist

AIRCRAFT ACCEPTANCE

Maintenance Status.....CHECKED
Emergency & Safety Equipment.....CHECKED
Hobbs Time.....RECORDED
Tachometer Time.....RECORDED
A.R.R.O.W.....CHECKED
Weather & Density.....COMPLETE
Weight & Balance Worksheet.....COMPLETE
File Flight Plan.....FILE

BEFORE STARTING ENGINE

PREFLIGHT INSPECTION.....COMPLETE
Passenger Brief.....COMPLETE
Circuit Breakers.....CLEAR
Fuel Proper Tank.....LEFT
Alt. Static.....PARALLEL
Brakes Pedal Test.....CHECKED
Brakes.....SET

STARTING ENGINE

Seat Track / Back.....LOCKED
Avionics.....OFF
Autopilot.....OFF
Carb Heat.....OFF
Beacon.....ON
Throttle.....SLIGHT
Props.....CLEAR!!! & LOOK
Mixture.....RICH
Master.....ON
Fuel Pump.....ON
Mags.....START
Throttle.....800 – 1000 RPM
Oil Pressure.....CHECK
Fuel Pump.....OFF
Fuel Pressure.....CHECK
Lights.....AS REQUIRED
Mixture.....LEAN

BEFORE TAXI

Seat Belts / Harness.....CHECKED
Flaps.....UP
Heat / Vents / Defrost.....SET
Avionics.....ON / SET
Transponder.....1200 / TEST / STBY
ATIS / AWOS.....RECORDED
Altimeter.....SET
COM and NAV Radios.....SET and TEST
Taxi Lights.....AS REQUIRED
Contact Ground Controller.....CALL

TAXI

Brakes.....RELEASE, ROLL and TEST
Attitude Indicator.....SET and TEST
Turn Coordinator.....TEST
HI to Compass.....SET and TEST
Flight Instruments.....CHECKED

BEFORE TAKEOFF

Brakes.....SET
Fuel.....PROPER TANK
Trim.....TAKEOFF
Flight Controls.....FREE & CORRECT
Annunciator Lights.....TEST
Engine Instruments.....CHECKED
Primer.....IN / LOCKED

ENGINE CHECK

Mixture.....RICH
Throttle.....2000 RPM
Mags (note Drop).....R – L TEST
Vacuum.....4~6
Amps / Volts.....CHECKED
Carb Heat (note Drop).....ON
Fuel Pressure.....CHECKED
Oil Pressure.....CHECKED
Oil Temperature.....CHECKED
Idle Check.....CLOSED
Throttle Friction.....SET
Carb Heat.....OFF
Mixture.....LEANED

AFTER ENGINE CHECK

Flight Instruments (AI, HI).....SET
Departure Briefing.....COMPLETE
Brakes.....RELEASE
Position Aircraft.....AT HOLD SHORT
Contact Tower.....CALL

Flight Instrument Check:

- **Clock** up and Running
- **Airspeed Indicator** at 0
- **Attitude Indicator** up and Running
- **Altimeter**
 - Within 75 feet of field elevation
- **Vertical Speed Indicator**
 - Note where for 0 for flight reference.
- **Directional Gyro**
 - Spinning freely in the direction of the turn.
- **Turn Coordinator**
 - Ball to the outside of the turn
 - Wings move direction of the turn.
- **Compass**
 - moving freely
 - not leaking

Engine Out:

- On **ROLL** → cut power -- Brake Straight Ahead
- **AFTER ROTATE** → cut power -- Land Straight Ahead
- On **Climbout/OFF AIRPORT Property** →
 - Cut power
 - Pitch for Best Glide 73KIAS
 - Avoid Obstacles
 - Make minor corrections
- On **Climbout/over 1000Ft** →
 - We have a chance to make it back to the field.
 - Pitch for Best Glide 73KIAS

Proper Exchange of Flight Controls:

Instructor to Student → I have the controls
Student to Instructor → You have the controls
Instructor to Student → I have the controls

Student to Instructor → You have the controls
Instructor to Student → I have the controls
Student to Instructor → You have the controls

Emergencies:

In the Event of an emergency, the Instructor has the controls, the student has the checklists, we work as a team!

Passenger Brief:

- I am pilot in command, I have final authority.
- Proper use of Seatbelts
- If certified co-pilot, discuss who has checklists
- Sterile cockpit below 1000ft.
- Passengers are second set of eyes to watch for traffic.
- Scanning Techniques.
- What is the purpose of the flight?

LINE UP (H.A.L.T.T.T.)

Flaps SET/CHECKED
 Doors/Windows CLOSED & LATCHED
 Carb Heat OFF
 HI to Compass SET

AFTER CLEARED ONTO RUNWAY

Mixture RICH
 Fuel Pump ON
 Landing Light ON
 Strobe ON
 Transponder ALT
 Time Off NOTE

TAKE OFF

Runway Centerline POSITION
 Brakes HOLD
 Throttle 2000 RPM
 Engine Instruments GREEN
 Brakes RELEASE
 Full Throttle 2350 RPM MIN
 Airspeed Indicator ALIVE
 Rotate 55 KIAS
 Vy 79 KIAS
 Flaps UP

CLIMB

Airspeed 79-87 KIAS
 Power FULL
 Mixture RICH
 Fuel Pump OFF
 Landing Light OFF
 Instruments GREEN
 Flight Plan OPEN

CRUISE

Throttle SET
 Mixture LEANED
 Instruments GREEN
 HI to Compass (15 Min.) SET
 Fuel (every 30 Min.) PROPER TANK

DESCENT

Mixture RICHEN
 Carb Heat AS REQUIRED
 Fuel PROPER TANK
 ATIS / AWOS RECORD
 Altimeter SET
 Instruments GREEN
 HI to Compass SET
 Airspace Entry Clearance RCVD

PRE-LANDING

Landing Light ON
 Autopilot OFF
 Seat Belts/Harness CHECK
 Mixture BEST POWER
 Carb Heat AS REQUIRED
 Fuel Pump ON
 Fuel PROPER TANK
 Flaps AS REQUIRED

LANDING

Flaps 40 DEG
 Approach Speed 65 KIAS

GO AROUND

Throttle FULL
 Carb Heat OFF
 Flaps RETRACT to 20 DEG
 Vy 79 KIAS
 Flaps RETRACT PROC

AFTER LANDING

Flaps UP
 Carb Heat OFF
 Fuel Pump OFF
 Strobe OFF
 Landing Light OFF
 Taxi Light AS REQUIRED
 Pitot Heat OFF
 Trim TAKE OFF
 Transponder STBY
 Contact Ground COMPLETE
 Taxi to Ramp COMPLETE

SECURING

Avionics OFF
 Lights OFF
 Mixture CUTOFF
 Master OFF
 Mags OFF
 Hobbs / Tach Time RECORD
 Secure Yoke INSTALLED
 Chocks INSTALLED
 Tie Downs SECURED
 Pitot Cover INSTALLED
 Baggage Door SECURED
 Cabin Door SECURED

“V” Speeds (KIAS)

Vr 55
 Vx 63
 Vy 79
 Va 93-111
 Vs0 44
 Vs1 50
 Vfe 103
 Vno 126
 Vne 160
 GLIDE 73
 Max Cross Wind 17

KCRG Area Freqs.

ATIS 125.4
 Ground 121.8
 Tower 132.1
 VOR 114.5
 JAX Appr 119.0
 Practice Area 123.45