

## 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 ..... 55KIAS  
 Vy ..... 79KIAS  
 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 ..... 65KIAS

**GO AROUND**

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