

# PA28-161 Warrior II Checklist

## Normal Procedures

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### 1 Normal Procedures

#### 1.1 Airspeeds for Safe Operations

- (a) Best rate of climb  $V_Y = 79$  KIAS.
- (b) Best angle of climb  $V_X = 63$  KIAS.
- (c) Turbulent Air Op Speed, 111 KIAS.
- (d) Maximum flap op speed, 103 KIAS.
- (e) Landing Final Approach Speed,  $40^\circ$ , 63 KIAS
- (f) Maximum Demonstrated Crosswind, 17 KTS

#### 1.2 Preparation

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Airplane status	.....	airworthy, paper on board	<input type="checkbox"/>
Weather	.....	suitable	<input type="checkbox"/>
Baggage	.....	weighed, stowed, tied	<input type="checkbox"/>
Weight and C.G.	.....	within limits	<input type="checkbox"/>
Navigation	.....	planned	<input type="checkbox"/>
Charts and nav	.....	on board	<input type="checkbox"/>
Performance and range	.....	computed and safe	<input type="checkbox"/>

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## 1.3 Preflight Check

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- Cockpit
- Control wheel ..... release belts
- Avionics ..... OFF
- Parking brake ..... Set
- Electric switches ..... OFF
- Magneto switch ..... OFF
- Mixture ..... idle cut-off
- Master switch ..... ON
- Fuel quantity gauges ..... check
- Annunciator panel ..... check
- Master switch ..... OFF
- Flight controls ..... check
- Flaps ..... check
- Trim ..... check, set neutral
- Pitot drain ..... DRAIN, close
- Static drain ..... DRAIN, close
- Windows ..... check, clean
- Tow bar ..... stow
- Baggage ..... secure
- Baggage door ..... close, secure

### Right Wing

- Wing ..... free of ice, snow, frost
  - Control surfaces ..... check for interference
  - Hinges ..... check for interference
  - Static wicks ..... check
  - Wing tip and lights ..... check
  - Fuel tank ..... check supply visually- secure caps
  - Fuel tank sump ..... drain, check for contamination
  - Fuel vent ..... clear
  - Tie down and chock ..... remove
  - Main gear strut ..... proper inflation, 4.5 in
  - Tyre ..... check
  - Brake block and discs ..... check
  - Fresh air inlet ..... clear
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**Nose Section**

- Fuel and oil ..... check for leaks
- Cowling ..... secure
- Windshield ..... clean
- Propeller and spinner ..... check
- Air inlets ..... clear
- Alternator belt ..... check tension
- Landing light ..... check
- Nose chock ..... remove
- Nose gear strut ..... proper inflation, 3.25 in
- Nose wheel tyre ..... check
- Oil ..... check level
- Dipstick ..... properly seated
- Fuel strainer ..... drain, check for contamination

**Left Wing**

- Wing ..... free of ice, snow, frost
  - Fresh air inlet ..... clear
  - Main gear strut ..... proper inflation, 4.5 in
  - Tyre ..... check
  - Brake block and discs ..... check
  - Fuel tanks ..... check supply visually -secure caps
  - Fuel tank sumps ..... drain, check for contamination
  - Fuel vents ..... open
  - Tie down and chock ..... remove
  - Pitot head ..... remove cover-holes clear
  - Wing tip and lights ..... check
  - Control surfaces ..... check for interference
  - Hinges ..... check for interference
  - Static wicks ..... check
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**Fuselage**

Antennas	.....	check	<input type="checkbox"/>
Empennage	.....	Free of ice, snow, frost	<input type="checkbox"/>
Fresh air inlet	.....	clear	<input type="checkbox"/>
Stabilator and trim tab	.....	check for interference	<input type="checkbox"/>
Tie down	.....	remove	<input type="checkbox"/>
Master switch	.....	ON	<input type="checkbox"/>
Cockpit lighting	.....	check	<input type="checkbox"/>
Nav and strobe lights	.....	check	<input type="checkbox"/>
Stall warning	.....	check	<input type="checkbox"/>
Pitot heat	.....	check	<input type="checkbox"/>
All switches	.....	OFF	<input type="checkbox"/>
Passengers	.....	BOARD	<input type="checkbox"/>
Cabin door	.....	close and secure	<input type="checkbox"/>
Seat belts and harness	.....	fasten-check inertia reel	<input type="checkbox"/>

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## 1.4 Passenger Briefing

1. Smoking
2. Seatbelts, how to operate
3. Seat backs, upright for takeoff and landing
4. Location and use of emergency exit
5. Survival equipment, if available
6. If over water, ditching procedure and location of floatation equipment
7. If above 12,000', use of oxygen
8. Location and use of fire extinguisher
9. Location and use of BRS/ELB

## 1.5 Starting Engine

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### Before Start

- Brakes ..... set
- Carburettor heat ..... full OFF
- Fuel selector ..... desired tank
- Radios ..... OFF

### Starting Engine when Cold

- Throttle ..... 1/4" open
- Master switch ..... ON
- Fuel pump ..... ON
- Mixture ..... full RICH
- Starter ..... engage
- Throttle ..... adjust
- Oil pressure ..... check

If engine does not start within 10 sec., prime and repeat.

### Starting Engine when Hot

- Throttle ..... 1/2" open
- Master switch ..... ON
- Fuel pump ..... ON
- Mixture ..... full RICH
- Starter ..... engage
- Throttle ..... adjust
- Oil pressure ..... check

### Starting Engine when Flooded

- Throttle ..... open full
  - Master switch ..... ON
  - Fuel pump ..... OFF
  - Mixture ..... idle cut-off
  - Started ..... engage
  - Mixture ..... advance
  - Throttle ..... retard
  - Oil pressure ..... check
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### Starting with External Power Source

- Master switch ..... OFF
- All electrical equipment ..... OFF
- Terminal ..... connect
- External power plug ..... insert in fuselage
- Proceed with normal start
- Throttle ..... lowest possible RPM
- External power plug ..... disconnect from fuselage
- Master switch ..... ON - check ammeter
- Oil pressure ..... check
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### 1.6 Taxying Checks

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- Chocks ..... removed
- Taxi area ..... clear
- Throttle ..... apply slowly
- Brakes ..... check
- Steering ..... check
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### 1.7 Ground Check

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- Brakes ..... Set and hold
- Throttle ..... 2000 RPM
- Magnetos ..... max drop 175 RPM, diff 50 RPM
- Vacuum ..... 4.8-5.1 HG
- Oil temp ..... check
- Oil pressure ..... check
- Air conditioner ..... check
- Carburettor heat ..... check
- Fuel pump ..... OFF
- Fuel pressure ..... check
- Throttle ..... retard
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## 1.8 Before Takeoff Check

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Master switch	..... ON	<input type="checkbox"/>
Instruments	..... check	<input type="checkbox"/>
Fuel selector	..... proper tank	<input type="checkbox"/>
Fuel pump	..... ON	<input type="checkbox"/>
Engine gauges	..... check	<input type="checkbox"/>
Carburettor heat	..... OFF	<input type="checkbox"/>
Seat backs	..... Erect	<input type="checkbox"/>
Seat adjust	..... LOCKED	<input type="checkbox"/>
Mixture	..... set	<input type="checkbox"/>
Primer	..... lock	<input type="checkbox"/>
Belts and harness	..... fastened/check	<input type="checkbox"/>
Empty seats	..... seat belts fastened	<input type="checkbox"/>
Flaps	..... set	<input type="checkbox"/>
Trim tab	..... set	<input type="checkbox"/>
Controls	..... free	<input type="checkbox"/>
Door	..... latched and locked	<input type="checkbox"/>
Trasponder	..... ALT	<input type="checkbox"/>

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