

PA-28 Warrior

Preflight Inspection Cockpit

Aircraft docs (AROW)	Check
Weight & Balance	Check
Control wheel	Release belt
Flaps	Down
Hobbs	Note time
Avionics Power Switch	Off
Ignition	Off
Master Switch	On
Fuel quantity indicators	Check
Lights	On & Check
Stall warning	Check
Master Switch	Off

Right wing

Flaps	Check
Aileron	Free & Secure
Wing leading edge/surface	Clean
Wing tie-down	Removed
Main tire	Inflated / condition
Main gear strut	4.5"
Brakes	Check & No Leak
Fuel tank vent	Check
Fuel tank sump	Sample
Fuel Quantity	Check
Fuel Filler cap	Secure

Nose

Engine oil level	8 qts
Cowling	Secure
Propeller and spinner	Check
Alternator belt	Check
Engine cooling intake	Clear
Carburetor Air Filter	Clear
Nose wheel strut & tire	3.25"
Fuel strainer	Sample

KSPG Frequencies:

ASOS	118.87
Ground	121.80
Tower	127.40
TPA Approach	119.65

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Left Wing

Wing leading edge/surface	Clean
Aileron	Free & Secure
Flaps	Check
Wing tie-down	Removed
Pitot / static mast	clear
Main tire	Inflated / condition
Main gear strut	4.5"
Brakes	Check & No Leak
Fuel tank vent	Check
Fuel tank sump	Sample
Fuel Quantity	Check
Fuel Filler cap	Secure

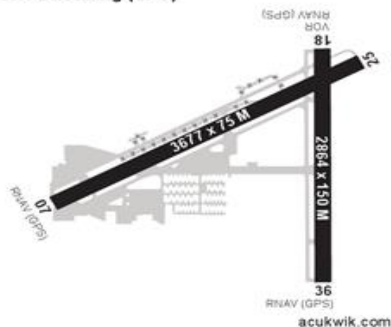
Empennage

Tail Tie-Down	Removed
Control surfaces	Free & Secure
Trim Tab	Check Security
Antennas	Check Security
Baggage Door	Closed & Locked

Before starting engine

Preflight inspection	Complete
Passenger Briefing	Complete
Seats, belts	Adjust & Lock
Doors	Closed & Locked
Brakes	Test and set
Circuit breakers	Check In
Electrical Equip/Autopilot	Off
Alt Static	Off
Avionics Power Switch	Off
Fuel Selector	Fullest tank
Flaps	Up

St. Petersburg (SPG)



PA-28 Warrior

Starting Engine

Brakes	Hold
Master / Alternator Switch	On
Fin Strobe Light	On
Carb heat	Off
Fuel Pump	On
Mixture	Rich or DA
Prime	1-3 pumps
Throttle	Cold 1/4" / Hot 1/2"
Propeller area	Clear
Ignition	Start
Throttle	1000 rpm
Oil Pressure	Check normal
Mixture	Lean for Taxi
Flaps	Up
Fuel Pump	Off
Avionics Master Switch	On
Transponder	Alt and 1200
Ammeter	Check charge
ATIS/AWOS/ASOS	Obtain
Altimeter	Set
Clearance/Ground	Contact

Run-Up

Brakes	Set
Cabin doors	Closed & Locked
Flight controls	Free & Correct
Flight Instruments	Set
Fuel Quantity	Check
Fuel Selector	Switch Tanks
Elevator Trim	Set for TAKEOFF
Mixture	Rich
Throttle	2000 rpm
Ammeter	Check
Magnetos	max 175rpm drop
Carb heat	On
Throttle	Idle
Carb heat	Off
Throttle	1000 rpm
Fuel Pressure	Check
Throttle Friction Lock	Adjust
Annunciator Panel	Test
Radios/Avionics/GPS	Set

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Before Take-Off

Mixture	Rich or DA
Fuel Pump	On
Fuel Selector	Fullest Tank
Magnetos	Both
Flaps	Set
Carb heat	Off
Trim	Set for T/O
Radios/Avionics/GPS	Set
Transponder	Set
Seats, belts	Adjust & Lock
Windows and doors	Closed
Lights	As Req'd
Departure Brief	briefed

Cruise

Landing Lights	OFF
Throttle	2200-2600 RPM
Fuel Pump	Off at safe altitude
Mixture	Adjust (above 3,000)
Trim	Set

Pre-landing checklist

Fuel Pump	On
Fuel selector	Fullest Tank
Mixture	Rich below 5000'
Seatbelts	Fastened
Lights	As Req'd
Airspeed	63 KIAS (Flaps Full)

After landing

Flaps	Up
Carb Heat	Off
Lights	As Req'd
Mixture	Lean for taxi
Fuel Pump	Off
Radio	Taxi clearance

Shut Down

Throttle	1000 RPM
Lights	Off
Avionics	Off
Mixture	Cut-off
Ignition	Off
Keys	Removed
Master Switch	Off
Hobbs	Record

Short field take-off

Mixture Rich or DA
 Fuel Pump On
 Fuel Selector **Fullest Tank**
 Magnetos **Both**
 Flaps **25°**
 Carb heat **Off**
 Trim **Set for T/O**
 Radios/Avionics/GPS **Set**
 Transponder **Set**
 Seats, belts **Adjust & Lock**
 Windows and doors **Closed**
 Lights **As Req'd**
 Departure Brief **Briefed**
 Taxi **Max runway**
 Brakes **Set and hold**
 Throttle **Full**
 Engine Gauges **Release**
 Brakes **Check**
 Climb **52 Kts**
 Flaps **Retract when clear**
 Airspeed **79 kts**

Soft field take-off

Mixture Rich or DA
 Fuel Pump On
 Fuel Selector **Fullest Tank**
 Magnetos **Both**
 Flaps **25°**
 Carb heat **Off**
 Trim **Set for T/O**
 Radios/Avionics/GPS **Set**
 Transponder **Set**
 Seats, belts **Adjust & Lock**
 Windows and doors **Closed**
 Lights **As Req'd**
 Departure Brief **Briefed**
 Taxi **keep rolling**
 Accelerate **in ground eff 79kts**
 Flaps **retract**

Short field landing

Fuel Pump **On**
 Fuel selector **Fullest Tank**
 Mixture **Rich below 3000'**
 Seatbelts **Fastened**
 Lights **As Req'd**
 ATIS/AWOS/ASOS **Checked**
 Airspeed **63 KIAS (Flaps Full)**
 Braking **Heavy as required**
 Flaps **retract upon touchdown**

Soft field landing

Fuel Pump **On**
 Fuel selector **Fullest Tank**
 Mixture **Rich below 3000'**
 Seatbelts **Fastened**
 Lights **As Req'd**
 ATIS/AWOS/ASOS **Checked**
 Airspeed **63-68 KIAS (Flaps Full)**
 Touchdown **Main first, softly**
 Landing roll **Nose wheel up**
 Elevator **Up**
 Braking **As required**

Go-around

Throttle **Full**
 Carb Heat **Cold (In)**
 Flaps **slowly retract**
 Airspeed **Accelerate to 75**

	V-Speed in kts	
Rotate	V_r	45-55
Normal Climb Out	V_{climb}	87
Max angle (no flaps)	V_x	63
Climb rate (no flaps)	V_y	79
Maneuver	V_a	88-111
Norm. oper. range		50-126
Flaps	V_{fe}	103
Maneuver max	V_{no}	111
Never exceed	V_{ne}	160
Stall (clean)	V_s	50
Stall (dirty)	V_{so}	44
Final Approach	Flaps	63
	No flaps	70
Glide	V_g	73

Engine Fire during start

Crank **Continue**
 Mixture **Idle Cut-off**
 Throttle **full**
 Fuel Pump **Off**
 Fuel Selector **Off**
 Engine **Shut down and inspect**

Engine Fire during flight

Mixture **Idle Cut-off**
 Throttle **full**
 Fuel Pump **Off**
 Fuel Selector **Off**
 Heater **Off**
 Defroster **Off**

Electrical failure

Load meter **Verify**
 Alternator **Off**
Reduce load to minimum
 Breaker/alt **Check & Reset**
 Alternator **On**
 If still no power:
 Alternator **Off**
Reduce load and land

Electrical overload

Master Switch **Off**
 All on/off appliances **Off**
 Master Switch **On**
 turn on appliance one at a time
 Over-voltage light **Off**
or TERMINATE flight ASAP

Spin Recovery

Throttle **IDLE**
 Ailerons **NEUTRAL**
 Rudder **Full opposite**
 Control wheel **smoothly forward**
 Pitch **Level when AS >63kts**

Engine Roughness

Carb Heat **On**
 Magnetos **Check**
 Mixture **Adjust**
 Fuel Pump **On**
 Fuel Tank **Switch**

If operating on one Magneto:
low RPM & Full rich

Engine Failure

DURING FLIGHT

Airspeed **73 KIAS**
LOOK FOR A FIELD!
 Fuel selector valve **Fullest Tank**
 Primer **In & Locked**
 Ignition **Both**
 Fuel Pump **On**
 Mixture **Rich**
 Carb heat **On**
 Mayday **Squawk 7700**
 Mayday **Transmit 121.5**

If no engine restart possible:

Fuel selector valve **Off**
 Ignition **Off**
 Fuel Pump **Off**
 Mixture **Idle Cut-off**
 Flaps **As Required**
 Master switch **Off**
 Seatbelts **Fastened**
 Door **Crack open**

ON TAKEOFF

Power **Idle**
 Brakes **Apply**
 Centerline **Maintain**
 Mixture **Cut off**
 Mags **Off**
 Master switch **Off**

AFTER TAKEOFF

Yoke **push forward**
 Airspeed **73 KIAS (flaps UP)**
 Fuel selector valve **Off**
 Ignition **Off**
 Fuel Pump **Off**
 Mixture **Idle Cut-off**
 Mags **Off**
 Master switch **Off**
 Flaps **As Required**
 Door **Crack open**