PA-28 Archer

Preflight Inspection Cockpit

Aircraft docs (AROW) Check Weight & Balance Check Control wheel Release belt Down Flaps Hobbs Note time **Avionics Power Switch** Off Off Ianition Master Switch On Check Fuel quantity indicators On & Check Liahts Alt Static Off Master Switch Off

Right Wing

Flaps Check Free & Secure Aileron Wing tie-down Removed Main tire Inflated/condition Main gear strut 4.5" Check & No Leak Brakes Fuel Tank Sump Sample **Fuel Quantity** Check Fuel Filler Cap Secure Wing leading edge/surface Clean

Nose

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

Left Wing

Wing leading edge/surface Clean Inflated / condition Main tire 4.5" Main gear strut Check & No Leak Brakes Wing tie-down Removed Pitot / static mast clear Fuel tank vent open Check Fuel tank sump Sample **Fuel Quantity Check Visually**

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Left Wing cont'd

Fuel Filler cap
Stall warning
Aileron
Free & Secure
Check
Check
Free & Check

Empennage

Tail Tie-Down
Control surfaces
Trim Tab
Antennas
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 Avionics Power Switch Off Fuel Selector **Fullest tank Flaps** Uр

Starting Engine

	9
Brakes	HOLD
Carb heat	Off
Master / Alternator	Switch On
Strobe Light	On
Fuel Pump	On
Mixture	Rich or DA
Prime	1-3 pumps
Throttle Co	old 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 Sw	itch On
Transponder	Alt and 1200
Ammeter	Check charge
ATIS/AWOS/ASOS	Obtain
Altimeter	Set

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Run-Up

Brakes	Set
Cabin doors	Closed & Locked
Flight controls	Free & Correct
Flight Instrume	
Fuel Quantity	Check
Fuel Selector	Switch Tanks
Electric Trim	Check
Elevator Trim	Set for TAKEOFF
Mixture	Rich
Throttle	2000 rpm
Circuit breakers	s Check In
Ammeter	Check
Magnetos	max 175rpm drop
Carb heat	On
Throttle	ldle
Carb heat	Off
Throttle	1000 rpm
Fuel Pressure	Check
Throttle Friction	n Lock Adjust
Annunciator Pa	nel Test
Radios/Avionic	s/GPS Set

Before Take-Off

Adjust & Lock	Seats, belts
Rich or DA	Mixture
On	Fuel Pump
Off	Carb heat
Fullest Tank	Fuel Selector
Both	Magnetos
Set	Flaps
Set for T/O	Trim
Set	Transponder
As Required	Lights
Closed	Window and door
Complete	Departure Brief
'S Set	Radios/Avionics/GP

Cruise

Landing Lig	hts OFF
Throttle	Set
Fuel Pump	Off at safe altitude
Mixture	Adjust (lean above 5,000)
Trim	Set

KSPG Runways:

7 RNAV 18 VOR & RNAV 25 VISUAL & 36 RNAV Full Stop Only

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Pre-Landing Checklist

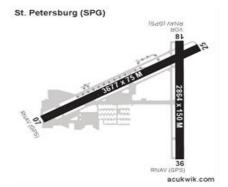
Fuel Pump	On
Fuel selector	Fullest Tank
Mixture	Rich below 5000'
Seatbelts	Fastened
Lights	As Required
ATIS/AWOS/A	SOS Checked
Airspeed	66 KIAS (Flaps Full)

After Landing

Flaps	Up
Carb Heat	Off
Lights	As Required
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



KSPG Frequencies:

118.875
121.800
127.400
119.650
118.800

Short Field Take-off

PA-28 Archer

Seats, belts **Adjust & Lock** Liahts As Rea'd Mixture Rich or DA Fuel Pump On Fuel Selector **Fullest Tank** Carb heat Off Magnetos **Both** 25° **Flaps** Set for T/O Trim Transponder Set Windows and doors Closed Departure Brief **Briefed** Radios/Avionics/GPS Set Taxi Max runway **Brakes** Set and hold Throttle Full **Engine Gauges** Check **Brakes** Release Climb 54 kts **Flaps Retract Above 64 kts** Airspeed 76 kts

Soft Field Take-off

Seats, belts Adjust & Lock As Rea'd Liahts Mixture Rich or DA Fuel Pump On Fuel Selector **Fullest Tank** Carb heat Off Magnetos **Both** Flaps 25° Trim Set for T/O Transponder Set Windows and doors Closed **Briefed** Departure Brief Radios/Avionics/GPS Set Taxi keep rolling Accelerate in ground eff 76 kts **Flaps** retract

Short Field Landing

Fuel Pump On Fuel selector **Fullest Tank** Rich below 3000' Mixture Seatbelts **Fastened** Liahts As Rea'd ATIS/AWOS/ASOS Checked 64 KIAS (Flaps Full) Airspeed Braking Heavy as required

Soft Field Landing

N165JY

Fuel Pump On Fuel selector **Fullest Tank** Mixture Rich below 3000' Seatbelts **Fastened** Lights As Rea'd ATIS/AWOS/ASOS Checked Airspeed 66-71 KIAS (Flaps Full) Touchdown Main first, softly Landing roll Nose wheel up Elevator αU Braking As required

Go-Around

Throttle Full
Carb Heat Cold (In)
Flaps slowly retract
Airspeed Accelerate to 76

V-Speed in kts		
Rotate	$V_{\rm r}$	52-65
Max angle (no flaps)	V _x	64
Climb rate (no flaps)	V_y	76
Normal Climb Out	V_{climb}	87
Glide	V_g	76
Maneuver	Va	89-113
Norm. oper. range		55-125
Flaps	V_{fe}	102
Never exceed	V _{ne}	154
Stall (clean)	Vs	55
Stall (dirty)	V _{so}	49
Final Approach	Flaps	66
	No Flaps	72

Engine Fire During Start

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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 closed
Fuel Pump Off
Fuel Selector Off
Heater Off
Defroster Off

Electrical Failure

Voltmeter Verify Charge
Alternator Off
Reduce load to minimum
Procker/elt Chark & Baset

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

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Engine Failure

DURING FLIGHT

Airspeed 76 KIAS

LOOK FOR A FIELD!

Fuel selector valve Ignition Both Primer In & Locked Fuel Pump On Mixture Rich Carb heat On Mayday Transmit 121.5 Mayday Squawk 7700

If no engine restart possible:

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

ON TAKEOFF

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

AFTER TAKEOFF

push forward Yoke Airspeed 76 KIAS (flaps UP) Fuel selector valve Off Ignition Off Fuel Pump Off Idle Cut-off Mixture Flaps As Required Off Master switch Door Crack open

04/2024