

PA-28 Archer

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
Alt Static	Off
Master Switch	Off

Right Wing

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

Nose

Cowling	Secure
Engine oil level	4-6 qts
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
Aileron	Free & Secure
Flaps	Check
Wing tie-down	Removed
Main tire	Inflated / condition
Main gear strut	4.5"
Brakes	Check & No Leak
Fuel tank vent open	Check

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Left Wing

Fuel tank sump	Sample
Fuel Quantity	Check Visually
Fuel Filler cap	Secure
Pitot / static mast	clear
Stall warning	Check

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
Avionics Power Switch	Off
Fuel Selector	Fullest tank
Flaps	Up

Starting Engine

Brakes	HOLD
Master / Alternator Switch	On
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
Mags	On
Ignition	Start
Throttle	1000 rpm
Oil Pressure	Check normal
Flaps	Up
Fuel Pump	Off
Avionics Master Switch	On
Transponder	Alt and 1200
Ammeter	Check charge
Frequency/Weather	Obtain
Flight Instruments	Set
Ground	Contact

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Run-Up

Brakes	Set
Cabin doors	Closed & Locked
Flight controls	Free & Correct
Fuel Quantity	Check
Fuel Selector	Switch Tanks
Elevator Trim	Set for TAKEOFF
Mixture	Rich
Throttle	2000 rpm
Ammeter/Ckt Bkrs	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
Clearance/Ground	Contact

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
Transponder	Set
Seats, belts	Adjust & Lock
Window and door	Closed
Lights	As Required
Air Conditioning	Off

Cruise

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

Pre-Landing Checklist

Mixture	Rich below 5000'
Fuel Pump	On
Fuel selector	Fullest Tank
Seatbelts	Fastened

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Pre-Landing Checklist

Lights	As Required
ATIS/AWOS/ASOS	Checked

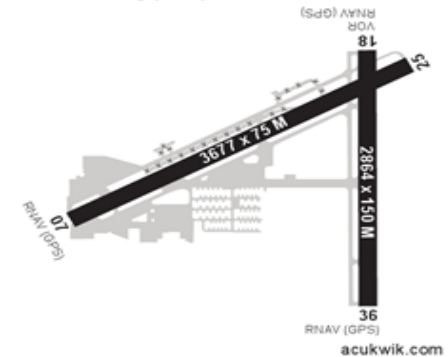
After Landing

Flaps	Up
Lights	As Required
Fuel Pump	Off
Radio	Taxi clearance

Shut Down

Throttle	1000 RPM
Lights	Off
Avionics	Off
Mixture	Cut-off
Mags	Off
Master Switch/Alt	Off
Hobbs	Record

St. Petersburg (SPG)



KSPG Frequencies:

ASOS	118.875
Ground	121.800
Tower	127.400
TPA Approach (South)	119.650
TPA Approach (West)	118.800

KSPG Runways:

- 7 RNAV
- 25 VISUAL only (no T/Gs)
- 18 VOR/RNAV
- 36 RNAV

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Short Field Take-off

Seats, belts	Adjust & Lock
Lights	As Req'd
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
Windows and doors	Closed
Departure Brief	Briefed
Taxi	Max runway
Brakes	Set and hold
Throttle	Full
Engine Gauges	Check
Brakes	Release
Climb	52 Kts
Flaps	Retract when clear
Airspeed	75 kts

Soft Field Take-off

Seats, belts	Adjust & Lock
Lights	As Req'd
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
Window and door	Closed
Departure Brief	Briefed
Taxi	keep rolling
Accelerate	in ground eff 75kts
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

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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 76

V-Speed in kts

	V-Speed	Value
Rotate	V _r	44-55
Max angle (no flaps)	V _x	63
Climb rate (no flaps)	V _y	75
Normal Climb Out	V _{climb}	87
Glide	V _g	73
Maneuver	V _a	88-111
Norm. oper. range		50-126
Flaps	V _{fe}	103
Never exceed	V _{ne}	160
Stall (clean)	V _s	50
Stall (dirty)	V _{so}	44
Final Approach	Flaps	63
	No Flaps	70

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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

Voltmeter	Verify Charge
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

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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	Transmit 121.5
Mayday	Squawk 7700

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
Ignition	Off

AFTER TAKEOFF

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

05/2021