PA-28R

Preflight Inspection Cockpit

Aircraft docs (ARROW) Check Weight & Balance Check Control wheel Release belt Hobbs Note time Ignition Off **Avionics Power Switch** Off Master Switch On Fuel quantity indicators Check Lights, Pitot Heat On Check lights and test pitot tube **Check operation** Stall warning Lights. Pitot Heat Off Alt Static Off Gear Selector Down Flaps Down Master Switch Off

Fuselage and Empenage

Baggage Door
Rivets
Check
Tail Tie-Down
Control surfaces
Trim Tab
Antennas
Closed & Locked
Lo

Right wing

Wing tie-down Removed Flaps / Ailerons **Free and Secure** Main tire Inflated / condition Main gear strut 4"- 7" Brakes Not Leaking Fuel tank sump Sample **Fuel Quantity** Check Fuel Filler cap Secure Wing leading edge/surface Clean

Nose

Secure
Check
Sample
Check
Check
Clear
Check
Clean if dirty

N7736C

Left Wing

Disconnect Wing tie-down Wing leading edge/surface Clean Flaps / Aileron Free and Secure Flaps Secure Main tire Inflated / condition **Brakes** Not Leaking Squat Switch Check Fuel tank vent open Check Fuel tank sump Sample **Fuel Quantity** Check Fuel Filler cap Secure Pitot / static mast opening clear

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 Valve **Fullest tank** Flaps Up Gear Selector Down

KSPG Frequencies:

ASOS 118.87 Ground 121.80 Tower 127.40 Departure/ Approach 119.65

KSPG Runways:

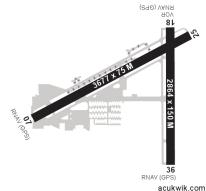
7 RNAV

25 VISUAL only (no T/Gs)

18 VOR/RNAV

36 RNAV

St. Petersburg (SPG)



PA-28R

Starting Engine

Brakes HOLD Master / Alternator Switch On Anti Collision Lights On Propeller area "Clear" Throttle Full Fuel Pump On Mixture Move full rich Fuel Flow steady (about 5 sec) Throttle 1/4" Mixture Idle Ignition Start Mixture Advance when engine fires Throttle 1000RPM Oil Pressure Check Mixture lean for taxi **Avionics Master Switch** On Transponder Alt and 1200 Ammeter Check charge Heading Indicator. Check ATIS/AWOS/ASOS Obtain Altimeter Set Clearance/Ground Contact

Run-Up

Set
Closed & Locked
Adjust & Lock
Free & Correct
nts Set
Check
alve Fullest Tank
Set for TAKEOFF
Rich
2000 rpm
5" +- 0.1"
emp check
nel Test
max 175rpm drop
cycle 3 times
Check
Off momentarily then On
Idle check then 100RPM

Normal Take Off

		i aite oii
	Fuel	Fullest Tank
	Ignition	Both
	Lights (IFR)	Anti Collision (all)
	Radios/Avionics/GPS	Set
	Mixture	Rich (or set to DA)
	Prop	Full forward
	Fuel Pump	On
	Alternate Air	Closed
	Flaps	as required
	Trim	Set
	Door	Latched
	Departure Brief	Briefed

N7736C

After Take Off

Climb	85 KIAS (see horizon)
Gear	Up
Landing Lights	OFF
Fuel Pump	Off at desired altitude

Cruise

Throttle	24"MP
Propeller	2400-2500RPM
Trim	Set
Mixture	Adjust (75° rich of peak)
Fuel	Switch Tanks

Pre-landing checklist

Fuel selector	Fullest Tank
Mixture	Full Rich below 3000'
Fuel Pump	On
Seatbelts	Fastened
ATIS/AWOS/ASOS	Checked

Final Approach

Flight instruments	Checked & Set
Radios	Set
GUMPS	check
Landing light	On - IFR or Night
Airspeed	75 KIAS (Flaps Up)
,	70-75 KIAS (Flaps Full)

After landing

Flaps	Up
Lights	Off
Trim	Neutral
Mixture	Lean for taxi
Fuel Pump	Off
Taxi Clearance	Contact Ground

Shut Down

Avionics	Off
Throttle	1000 RPM
Lights	Off
Mixture	Cut-off
Ignition	Off
Master switch	Off
Keys	Remove
Control Lock/ Seat Belt	Install
Hobbs	Record

PA-28R

Short field take-off

Fuel **Fullest Tank** Ignition **Both** Lights (IFR) Anti Collision (all) Radios/Avionics/GPS Set Mixture Rich (or set to DA) **Full forward** Prop Fuel Pump On Alternate Air Closed 25° Flaps Trim Set Door Latched Departure Brief **Briefed** Max runway Taxi **Brakes** Set and hold Throttle Full Release Brakes Rotate 57 kts Flaps Retract when clear 75 kts Airspeed

Short field landing

Pre-landing check Complete Approach 62 KIAS Flaps 25° (second notch) Throttle Maintain glide Touchdown Power Off Flaps Up Elevator Full up Braking Heavy as required

Soft field take-off

Fuel **Fullest Tank** Ignition Both Lights (IFR) Anti Collision (all) Radios/Avionics/GPS Set Mixture Rich (or set to DA) **Full forward** Prop Fuel Pump On Alternate Air Closed Flaps 25° Trim Set Latched Door Departure Brief **Briefed** Max runway Taxi Set and hold **Brakes** Throttle Full Release Brakes 57 kts Rotate Flaps Retract when clear keep rolling/ nose light Taxi 60 kts in ground eff. Rotate Flaps retract @78kts 87 kts Airspeed

Soft field landing

Pre-landing check Complete 1500 RPM Throttle 25° (second notch) Flaps Airspeed 60 kts Touchdown Main first, softly Nose wheel up Landing roll Elevator Un Braking As required

N7736C

Go-around

 Throttle
 Full

 Carb Heat
 Cold (In)

 Airspeed
 65

 Flaps
 slowly retract

 Airspeed
 75

V-Speed in kts		
Rotate	$V_{\rm r}$	60-65
Normal Climb Out	V _{climb}	87
Max angle (Sea Level)	V _x	74
Climb rate (Sea Level)	V _y	87
Maneuver	V _a	89-113
Norm. oper. range		62-148
Flaps	V _{fe}	110
Maneuver max	V _{no}	113
Never exceed	V _{ne}	<mark>186</mark>
Stall (clean)	Vs	62
Stall (G/F)	V _{so}	56
Final	V Ref	70
Approach	Flaps	
	V _{Ref} No flaps	80
S-turns	100 100 108 108	
Point turns		
Chandelles		
Lazy Eights		
Steep Turns	108	
Steep Spirals	85	
Maneuver Speed	100	
Signal	On Ground	In Flight
Steady Green	Takeoff	Land
Flashing Green	Taxi	Return to land
Steady Red	Stop	Give way
Flashing Red	Clear	Do not land
Et a de la	runway	
Flashing white	Return to	
Red/Green	ramp WARNING	WARNING
alternating	- USE CAUTION	- USE CAUTION
	3,13	0/10/1014

PA-28R

Engine Failure

ON TAKEOFF

 Power
 IDLE

 Brakes
 APPLY

 Centerline
 MAINTAIN

 Mixture
 CUT OFF

 Mags
 OFF

 Ignition
 OFF

AFTER TAKEOFF

Yoke push forward 95 KIAS (flaps UP) Airspeed Mixture Idle Cut-off **I**anition **Flaps** As Required as desired Gear Master switch Off Cabin Doors Unlatch Land (below 800' AGL) Straight head

DURING FLIGHT

Airspeed 95 KIAS

LOOK FOR A FIELD

 Fuel selector valve
 Both

 Primer
 In & Locked

 Mixture
 Rich

 Ignition
 BOTH (or START)

 Airspeed
 95 KIAS (flaps UP)

 80 KIAS (flaps DN)

If no engine restart possible

Mixture Idle Cut-off Fuel selector valve Off Off Ignition **Flaps** As Required Gear as desired Mayday Transmit 121.5 Squawk 7700 Mayday Master switch Off Touchdown **Tail Low**

N7736C

Propeller Overspeed

Throttle Retard
Oil Pressure Check
Prop Control Pull back then set
Airspeed Reduce
Throttle below 2700 RPM

Engine Roughness

Magnetos Check
Mixture Lean/Rich as necessary
Fuel Pump On
Fuel Tank Switch

Engine Fire during start

Crank Continue
Power 1700 RPM (2 min)
Engine Shut down and inspect

Engine Fire during flight

Mixture Idle Cut-off
Fuel selector valve Off
Master Switch Off
Cabin Heat/Air Off
Airspeed 100 KIAS

Electrical failure

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

Reduce load and land

Off

Alternator

Electrical overload

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

Spin Recovery

Ailerons NEUTRAL
Throttle IDLE
Rudder Full opposite
Control wheel Full forward
Pitch Level