Cessna 172P N99265

Preflight Inspection Cockpit

Aircraft docs (AROW)	**Check**
Weight & Balance	**Check**
Hobbs	**Check**
Control wheel lock	**Remove**
Ignition	**Off**
Avionics Power Switch	**Off**
Master Switch	**On**
Lights	**On and check**
Fuel quantity indicators	**Check**
Flaps	**Extend**
Lights	**Off**
Master Switch	**Off**

Fuselage & Empennage

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

Right Wing

Flaps	**Secure**
Aileron	**Free and Secure**
Wing tie-down	**Disconnect**
Main wheel tire	**Inflated/Cond**
Brakes	**Not Leaking**
Fuel tank sump	**Sample**
Fuel Quantity	**Check**
Fuel Filler cap	**Secure**

Nose

Engine oil level (5qt cold/4qt hot)	**Check**
Fuel strainer	**Sample**
Propeller and spinner	**Check**
Alternator belt	**Check**
Air intake	**Check**
Carburetor air filter	**Check**
Nose wheel tire	**Check**
Nose Strut	**Check**
Static source opening	**Check**

Left Wing

Pitot tube	**Check**
Stall warning	**Check**
Fuel tank vent open	**Check**
Landing lights	**Check**
Aileron	**Free and Secure**
Flaps	**Secure**
Wing tie-down	**Disconnect**
Main wheel tire	**Inflated/Cond**
Brakes	**Not Leaking**
Fuel tank sump	**Sample**
Fuel Quantity	**Check**
Fuel Filler cap	**Secure**

Before Starting Engine

Preflight inspection	**Complete**
Seats, belts	**Adjust & Lock**
Doors	**Closed & Locked**
Passenger Briefing	**Complete**
Brakes	**Test and set**
Circuit breakers	**Check In**
Electrical Equip	**Off**
Avionics Power Switch	**Off**
Fuel Selector Valve	**Both**

Starting Engine

Brakes	**HOLD**
Master Switch	**On**
Beacon	**On**
Carb heat	**Off**
Mixture	**Rich or DA**
Prime	**Prime if cold (three strokes)**
Throttle	**Open 1/4 inch**
Propeller Area	**Clear**
Ignition	**Start**
Throttle	**Adjust 1000 rpm**
Oil Pressure	**Check normal**
Flaps	**Up**
Avionics Master Switch	**On**
Radios	**Check On**
Circuit Breakers	**Check**
Transponder	**Alt and 1200**
Ammeter	**Check charge**
Heading Indicator	**check**
ATIS/AWOS/ASOS	**Obtain**
Altimeter	**Set**
Clearance/Ground	**Contact**

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Run-Up

Brakes	**Set**
Cabin doors	**Closed & Locked**
Seats, belts	**Adjust & Lock**
Flight controls	**Free & Correct**
Flight Instruments	**Set**
Fuel Quantity	**Check**
Fuel Selector Valve	**Both**
Elevator Trim	**Set for TAKEOFF**
Mixture	**Rich**
Throttle	**1700 rpm**
Engine Instruments	**Check**
Ammeter	**Check**
Circuit Breakers	**Check**
Magnetos	**max 125rpm drop**
Carb heat	**On**
Throttle	**Idle (engine still runs)**
Carb heat	**Off**
Throttle	**1000 rpm**
Throttle Friction Lock	**Adjust**
Radios/Avionics	**Set**

Normal Take-Off

Mixture	**Rich (or set to DA)**
Carb Heat	**Off**
Ignition	**Both**
Trim	**Set**
Flaps	**Up**
Lights	**As Req'd**
Transponder	**Set**
Radios/Avionics	**Set**
Departure Brief	**Complete**

Cruise

Throttle	**2400-2500 RPM**
Trim	**Set**
Mixture	**Adjust (75° rich of peak)**
Lights	**Off as Necessary**

Pre-Landing Checklist

Flight instruments	**Checked & Set**
Fuel selector	**Both**
Mixture	**Full Rich below 3000'**
Seatbelts	**Fastened**
Carb Heat under 2100 RPM	**On**
Lights	**As Req'd**
ATIS/AWOS/ASOS	**Checked**
Final Airspeed	**65-70 KIAS (Flaps Up)**
	60-65 KIAS (Flaps Dn)

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After Landing

Flaps	**Up**
Carb Heat	**Off**
Lights	**As Req'd**
Mixture	**Lean for taxi**

Shut Down

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

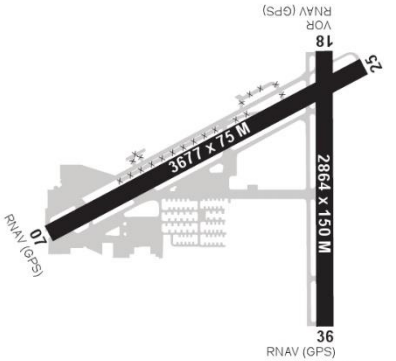
KSPG Frequencies:

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

KSPG Runways:

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

St. Petersburg (SPG)



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Short Field Takeoff

Mixture	Rich (or set to DA)
Carb Heat	Off
Ignition	Both
Trim	Set
Flaps	10°
Lights	As Req'd
Radios/Avionics	Set
Transponder	Set
Departure Brief	Complete
Taxi	Max runway
Brakes	Set and hold
Throttle	Full
Engine Gauges	Green
Brakes	Release
Climb	56-60 KIAS
Flaps	Retract when clear
Airspeed	75 KIAS

Short Field Landing

Pre-landing check	Complete
Approach	60 KIAS
Flaps	full down
Throttle	Maintain glide
Touchdown	Power Off
Flaps	Up
Elevator	Full up
Braking	Heavy as required

Soft Field Takeoff

Mixture	Rich (or set to DA)
Carb Heat	Off
Ignition	Both
Trim	Set
Flaps	10°
Lights	As Req'd
Radios/Avionics	Set
Transponder	Set
Departure Brief	Complete
Elevator	Full Aft
Throttle	Full
Accelerate	In Ground Effect
Airspeed	75 KIAS
Flaps	Retract when clear

Soft Field Landing

Pre-landing check	Complete
Flaps	As Req'd
Airspeed	60-65 KIAS
Touchdown	Main first, softly
Landing roll	Nose wheel up
Braking	Minimum Req'd

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V-Speeds

Rotate	V_r	55
Max angle (Sea Level)	V_x	60
Climb rate (Sea Level)	V_y	75
Maneuver	V_a	99
Norm. oper. range		44-127
Flaps	V_{fe}	110 10° 85 full
Max structural cruise speed	V_{no}	127
Never exceed	V_{ne}	158
Stall (clean)	V_s	44
Stall (land)	V_{so}	33
Glide	Vg	65
Final Approach	Flaps	60
	No flaps	65

S-turns	95
Point turns	95
Chandelles	104 (2400rpm)
Lazy Eights	104 (2400rpm)
Steep Turns	95
Steep Spirals	80
Maneuver Speed	99

Signal	On Ground	In Flight
Steady Green	Takeoff	Land
Flashing Green	Taxi	Return to land
Steady Red	Stop	Give way
Flashing Red	Clear runway	Do not land
Flashing white	Return to ramp	--
Red/Green alternating	WARNING – USE CAUTION	

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Engine Failure

DURING FLIGHT

Airspeed	65 KIAS

LOOK FOR A FIELD

Fuel selector valve	Both
Mixture	Rich
Carb Heat	On
Ignition	Both
Primer	In & Locked

If no engine restart possible:

Fuel selector valve	Off
Mixture	Idle Cut-off
Ignition	Off
Mayday	Transmit 121.5
Mayday	Squawk 7700
Flaps	As Required
Master switch	Off
Cabin Doors	Crack Open
Passenger Brief	Complete
Touchdown	Tail Low

ON TAKEOFF

Power	IDLE
Brakes	APPLY
Centerline	MAINTAIN
Mixture	CUT OFF
Mags	OFF
Ignition	OFF

AFTER TAKEOFF

Yoke	push forward
Airspeed	65 KIAS (flaps UP)
	60 KIAS (flaps DN)
Mixture	Idle Cut-off
Flaps	As Required
Master switch	Off
Cabin Doors	Unlatch
Land (below 800' AGL)	Straight head

EMERGENCY DESCENT

Power	IDLE
Carb Heat	On
Bank	30°- 45°
Pitch	125 kts

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ENGINE ROUGHNESS

Throttle	Full
Magnetos	Check
Mixture	Rich
Carb Heat	On

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:	
Alternator	Off

Reduce load and land as soon as Practical

Electrical Overload

Master Switch	Off
All on/off appliances	Off
Master Switch	On
turn on appliances one at a time	
Over-voltage light	Off

or TERMINATE flight ASAP

Spin Recovery

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