

# Cessna 172

## 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
Fuel quantity indicators	Check
Flaps	Extend
Lights	On & Check
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	Check
Fuel strainer	Sample
Propeller and spinner	Check
Alternator belt	Check
Air intake	Check
Carburetor air filter	Check
Landing lights	Check
Nose wheel tire	Check
Nose Strut	Check
Static source opening	Check

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## Left Wing

Pitot tube	Check
Stall warning	Check
Fuel tank vent open	Check
Landing/Taxi Light(s)	Clean/Cond
Wing tie-down	Disconnect
Aileron	Free and Secure
Flaps	Secure
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/Autopilot	Off
Avionics Power Switch	Off
Fuel Selector Valve	Both

## Starting Engine

Brakes	HOLD
Master Switch	On
Beacon	On
Carb heat	Off
Mixture	Rich or D/A
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
Gyro pressure	4.5-5.5
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
Radios/Avionics	Set
Transponder	Set
Departure Brief	Complete

## Cruise

Throttle	2200-2500 RPM
Trim	Set
Mixture	Adjust (75° rich of peak)
Lights	As Req'd

## 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

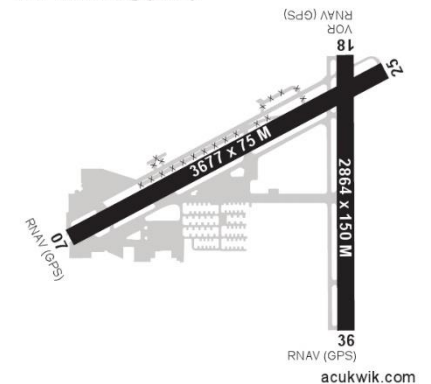
### KSPG Frequencies:

ASOS	118.875
Ground	121.800
Tower	127.400
Departure/ Approach	119.650

### KSPG Runways:

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

### St. Petersburg (SPG)



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## Short Field Take-Off

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 Take-Off

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 <sub>r</sub>	55
Max angle (Sea Level)	V <sub>x</sub>	60
Climb rate (Sea Level)	V <sub>y</sub>	75
Maneuver	V <sub>a</sub>	99
Norm. oper. range		44-127
Flaps	V <sub>fe</sub>	110 10° 85 full
Max structural cruise speed	V <sub>no</sub>	127
Never exceed	V <sub>ne</sub>	158
Stall (clean)	V <sub>s</sub>	44
Stall (land)	V <sub>so</sub>	33
Glide	V <sub>g</sub>	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 Decent

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

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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