

Cessna 172M

Preflight Inspection Cockpit

Aircraft docs (ARROW)	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
Master Switch	Off

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 strut & 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
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
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	Both

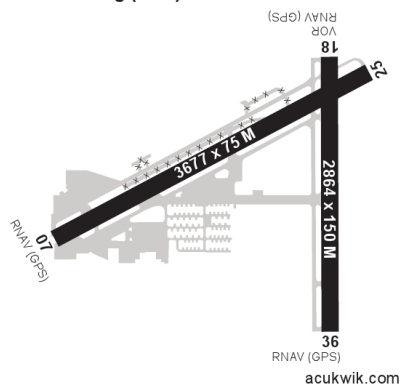
KSPG Frequencies:

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

KSPG Runways:

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

St. Petersburg (SPG)



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Starting Engine

Brakes	HOLD
Master Switch	On
Beacon	On
Throttle	Open 1/4 inch
Mixture	Rich or D/A
Carb heat	Off
Propeller area	"Clear"
Prime	Prime if cold (three strokes)
Ignition	Start
Throttle	Adjust 1000 rpm
Oil Pressure	Check normal
Mixture	Lean for Taxi (1inch)
Flaps	Up
Avionics Master Switch	On
Radios	Check On
Circuit Breakers	Check
Transponder	Alt and 1200
Ammeter	Check charge
ATIS/AWOS/ASOS	Obtain
Altimeter	Set
Passenger Brief	Complete
Clearance/Ground	Contact

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
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
Autopilot	Off

Normal Take-Off

All lights	On (night / IFR)
Radios/Avionics	Set
Transponder	'1200' or assigned
Trim	Set
Carb Heat	Off
Flaps	Up
Mixture	Rich (or set to DA)
Magnetos	Both
Departure Brief	Complete

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Cruise

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

Pre-landing checklist

Fuel selector	Both
Mixture	Full Rich below 3000'
Seatbelts	Fastened
ATIS/AWOS/ASOS	Checked

Final Approach

Flight instruments	Checked & Set
Radios	Set
Carb Heat under 2100 RPM	On
Mixture	Rich (or set for DA)
Landing light	On (IFR or Night)
Airspeed	65-70 KIAS (Flaps Up) 60-65 KIAS (Flaps Down)

After landing

Flaps	Up
Carb Heat	Off
Strobe light	Off
Mixture	Lean for taxi

Shut Down

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

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Short field take-off

Radios/Avionics	Set
Transponder	'1200' or assigned
Trim	Set
Carb Heat	Off
Flaps	10°
Mixture	Rich (or set to DA)
Taxi	Max runway
Brakes	Set and hold
Departure Brief	Briefed
Throttle	Full
Brakes	Release
Climb	57 KIAS
Flaps	Retract when clear
Airspeed	67 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

All lights	On (night / IFR)
Radios/Avionics	Set
Transponder	'1200' or assigned
Trim	Set
Carb Heat	Off
Flaps	10°
Mixture	Rich (or set to DA)
Taxi	Max runway
Departure Brief	Briefed
Taxi	keep rolling & keep nose light
Climb to	60 kts in ground effect
Flaps	retract @60kts
Airspeed	67 KIAS

Soft field landing

Pre-landing check	Complete
Throttle	1500 RPM
Flaps	as required
Airspeed	60 KIAS
Touchdown	Main first, softly
Landing roll	Nose wheel up
Elevator	Up
Braking	As required

Go-around

Throttle	Full
Carb Heat	Off
Flaps	20°
Climb	55 KIAS
Flaps	10°
Climb	60 KIAS
Flaps	Up
Climb	>70 KIAS

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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}	85
Max structural cruise speed	V _{no}	127
Never exceed	V _{ne}	158
Stall (clean)	V _s	44
Stall (land)	V _{so}	33
Final Approach	Flaps	60
	No flaps	65
S-turns	95	
Point turns	95	
Chandelles	104 (2400rpm)	
Lazy Eights	104 (2400rpm)	
Steep Turns	97	
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

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

DURING FLIGHT

Airspeed	65 KIAS
	LOOK FOR A FIELD
Fuel selector valve	Both
Mixture	Rich
Ignition	Off
Primer	In & Locked
Airspeed	65 KIAS (flaps UP) 60 KIAS (flaps DOWN)

If no engine restart possible

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

Emergency Decent

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

Engine Roughness

Throttle	Full
Magnetos	Check
Mixture	Rich
Carb Heat	On

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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

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