

Cessna 182

Preflight Inspection Cockpit

Aircraft docs (ARROW)	Check
Weight & Balance	Check
Hobbs	Check
Control wheel lock	Remove
Ignition	Off
Avionics Power Switch (BUS1&2)	Off
Master Switch (BUS1&2)	On
Flaps	Extend
Primary Flight Display	On
Low Volt Annunciator	On
Low Vacuum Annunciator	On
Avionics Power Switch (BUS1)	On
Forward Avionics Fan	Audibly On
Avionics Power Switch (BUS1)	Off
Avionics Power Switch (BUS2)	On
Aft Avionics Fan	Audibly On
Avionics Power Switch (BUS2)	Off
Pitot Heat	On/Check/Off
Master Switch (BUS1&2)	Off
Alt Static Air Valve	Off

Fuselage and 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 sumps (5)	Sample
Fuel Quantity	Check
Fuel Filler cap	Secure

Nose

Engine oil level (8qt hot, 9qt cold)	Check
Fuel sample (3)	Sample
Propeller and spinner	Check
Alternator belt	Check
Air intake	Check & Clear
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 sumps (5)	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 (BUS1&2)	Off
Cowl Flaps	Open
Fuel Selector Valve	Both

Starting Engine

STBY Batt Switch	Test, then ARM
Hold for 20 sec, verifying green test lamp stays on, then ARM - PFD comes on	
Brakes	HOLD
Beacon	On
Prop	Full fwd
Throttle	Open 1/4 inch
Mixture	Idle Cutoff
Engine Indications	Check
BUS E Volts	24V min
BUS M Volts	0V
Batt S Amps	Discharge (negative)
Master Switch	On
Propeller area	"Clear"
Fuel Pump	On
Mixture	Full fwd until steady fuel flow
Fuel Pump	Off
Magneto Switch	Start
Ignition	Start
Throttle	Adjust 1000 rpm
Amps (M Batt, Batt S)	positive charge
Oil Pressure	Check
Mixture	Lean for Taxi (1inch)
Flaps	Up
Avionics (Bus1&2)	On
Circuit Breakers	Check
Transponder	Alt and 1200
Heading Indicator	check
ATIS/AWOS/ASOS	Obtain
Altimeter (PFD, STBY, Autopilot)	Set
Passenger Brief	Complete

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Run-Up

Brakes	Set
Cabin doors	Closed & Locked
Seats, belts	Adjust & Lock
Flight controls	Free & Correct
Flight Instruments	Check (no red X)
Fuel Quantity	Check
Fuel Selector Valve	Both
Elevator/Rudder Trim	Set for TAKEOFF
Electric Trim	Check
Mixture	Rich
Throttle	1800 rpm
Engine Instruments	Check
Ammeter	Check
Circuit Breakers	Check
Magnetos	max 175rpm/ 50 diff
VAC indicator	Check
Engine Indication	Check
Amps/Volts	Check
Annunciators	none displayed
Prop Cycle	
Throttle	Idle (engine still runs)
Throttle	1000 rpm
Throttle Friction Lock	Adjust
Autopilot	Off
Flaps	Up

Normal Take-Off

All lights	On (night / IFR)
Radios/Avionics	Set
Transponder	'1200' or assigned
Trim	Set
Flaps	Up (or as desired)
Mixture	Rich (or set to DA)
Prop	Full fwd
Magnetos	Both
Rotate Speed	60kts
Climb Speed	85-95kts

Cruise

Throttle	15-23 in MP
Prop	2000-2400RPM
Trim	Set
Mixture	Adjust (75° rich of peak)
Cowl Flaps	Closed
Lights	As Necessary

Pre-Landing Checklist

Fuel selector	Both
Mixture	Full Rich below 5000'
Seatbelts	Fastened
ATIS/AWOS/ASOS	Checked

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Final Approach

Flight instruments	Checked & Set
Radios	Set
Prop	Full fwd
Mixture	Rich (or set for DA)
Landing light	On (IFR or Night)
Airspeed	75KIAS (Flaps Up) 65 KIAS (Flaps Dn)

After Landing

Flaps	Up
Cowl Flaps	Open
Strobe light	Off
Mixture	Lean for taxi

Shut Down

Avionics	Off
Throttle	1000 RPM
Electrical equipment	Off
Avionics	Off
Mixture	Idle Cut-off
Master switch	Off
STBY Batt Switch	Off
Ignition switch	Off
Keys	Remove
Flight Plan	Closed

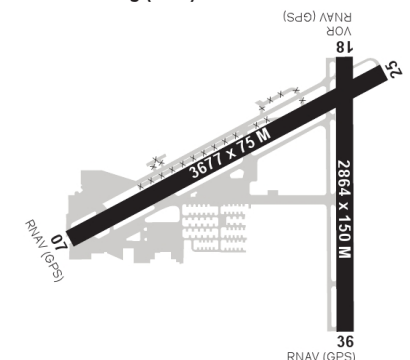
KSPG Frequencies:

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 Take-Off

All lights	On (night / IFR)
Radios/Avionics	Set
Transponder	'1200' or assigned
Trim	Set
Flaps	20°
Mixture	Rich (or set to DA)
Prop	Full fwd
Taxi	Max runway
Brakes	Set and hold
Departure Brief	Briefed
Throttle	Full
Brakes	Release
Climb	55 KIAS
Flaps	Retract when clear
Airspeed	65 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 at	60 kts in ground eff.
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

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Go-Around

Throttle	Full
Carb Heat	Off
Flaps	20°
Climb	60 KIAS
Flaps	10°
Climb	65 KIAS
Flaps	Up
Climb	>70 KIAS

V-Speeds		
Rotate	V _r	60
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}	10° 140kts 20° 120kts Full 100kts
Max structural cruise speed	V _{no}	154
Never exceed	V _{ne}	175
Stall (clean)	V _s	44
Stall (land)	V _{so}	33
Final Approach	Flaps	60
	No flaps	65
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	75 KIAS (flaps UP) 70 KIAS (flaps DN)
Mixture	Idle Cut-off
Flaps	As Required
Master & STBY switch	Off
Cabin Doors	Unlatch
Land (below 800' AGL)	Straight head

DURING FLIGHT

Airspeed	75 KIAS
LOOK FOR A FIELD	
Fuel selector valve	Both
Fuel Pump	On
Mixture	Rich
Ignition	Both
If prop is windmilling, engine will restart automatically, if at low speed, turn magnetos switch to both	
Fuel Pump	Off

Airspeed	65 KIAS (flaps UP) 60 KIAS (flaps DN)
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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
Bank	30°- 40°
Pitch	125kts

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Engine Roughness

Throttle	Full
Magnetos	Check
Mixture	Rich
Fuel	Check

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