

Preflight Inspection	
Cockpit	
Parking Brake	Set
Hobbs/Tach	Check
Master Switch	On
Fuel QTY	Check
Lights/Stall Warning	Check
Electrical Equipment	Off
Master Switch	Off
Flaps	Down
Trim	Neutral
Acft Documents	On Board

Right Wing	
Flap Hinges	Check
Aileron	Check Hinges
Wingtip/Lights	Check
Wing Secure	Check
Leading Edge	Clean
Fuel Quantity	Check
Fuel Vent	Clear
Fuel Strainer	Sample
Landing Gear	Check
Tire	No bald spots

Nose	
Engine Condition	Check
Oil Quantity	Check
Propeller & Spinner	Check
Alternator Belt	Check
Air Inlet	Clear
Landing Light	Check
Nose Gear & Tire	Check
Engine Condition (L)	Check
Fuel Strainer	Sample

Left Wing	
Same as Right Wing (in reverse) ADD pitot static mast	

Fuselage and Empenage	
Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check

Before Start	
Parking Brake	Set
Seats/Seat Belts	Fastened
Safety Brief	Briefed
Circuit Breakers	Check
Mixture	Rich
Carburetor Heat	Cold/Off
Prime	As Req
Throttle	1/4 inch Open
Master + Alternator	On
Beacon	On
Fuel Selector	Lowest Tank

Engine Start		
Electric Fuel Pump		On
Magneto		Left
Prop Area		Clear!
Starter		Engage
Magneto		Both
Throttle		1,000 RPM
Oil Press.		Check
Engine Instruments		Check
Electric Fuel Pump		Off

After Start		
Avionics		On
Nav Lights / ADSB		On
Radios		Set /Weather
Transponder		STBY / VFR
Circuit Breakers		Check
Mixture		Leaned for Taxi
Fuel Pump		Off
Parking Brake		Release
Brakes Check		Working

Before Run Up		
Parking Brakes		Set
Flight Controls		Check
Flight Instruments		Check & Set
Radios		Verify Set
Flaps		Check & Set
Trim		Set
Takeoff Briefing		Complete
Door & Window		Secured

Run Up		
Fuel Pump		On
Fuel Selector		Fullest Tank
Mixture		Rich / As Required
Throttle		2000 RPM
Carb Heat		Check
Magnetos		Check
(max drop 175RPM / max diff. 50 RPM)		
Engine Gauges		In Limits
Vacuum		5.1 (+/- .1)
Ammeter		Check
Throttle		Low Idle
Throttle		1000 RPM
Parking Brake		Released

Before Takeoff		
Fuel Selector		Fullest Tank
Mixture		Set
Transponder		Altitude / VFR
Landing Light		On
Electric Fuel Pump		On
Clock		Noted

V-Speeds (MPH)				
Vr	50-60	Va	129	
Vx	74	Vfe	115	
Vy	85	Vno	140	
Climb	100	Vne	171	
Vs1	64	Glide	(gross) 83	
Vso	55	Max dem XW	17	
Approach F/UP		85		
Approach F/DN		76		

After Takeoff	
1000 AGL Minimum	
Electric Fuel Pump / Landing Light	Off

Cruise	
Pitch	Set
Throttle	As required
Trim	Set
Mixture	Lean for Cruise
Fuel Tank	Swap every 20min

Approach	
Flight Instruments	Ckd & Set
Radios	ATIS/ Set
Carburetor Heat	As Required
Electric Fuel Pump	On
Mixture	Rich
Fuel Selector	Fullest Tank
Approach Briefing	Complete
Landing Light	On
Seat Belts	Fastened

After Landing	
Flaps	Up
Mixture	Leaned
Transponder	Squawk VFR
Landing Light	Off
Electric Fuel Pump	Off

Parking	
Avionics/ Transponder	Off
All Electrical (Not Including Beacon)	Off
Throttle	1000 RPM
Magnetos	Check Off/On
Throttle	Low Idle
Mixture	Cut-Off
Magneto	Off / Key on Dashboard
Master / Beacon	Off

Securing the Aircraft	
Hobbs / Tach	Record
Flight Controls	Secure
Door & Window	Secure
Tie-Downs	Secure
Master Switch	Check Off

Engine Failure	
Altitude Sufficient For Restart?	
No	
Glide	Establish
Landing Site	Select
Mixture	Cut-Off
Master Switch	Off
Magnetos	Off
Fuel Selector	Off
Door	Unlatched
Loss of Fuel Pressure	
Electric Fuel Pump	On
Fuel Selector	Opposite Tank

Flooded Engine Start	
Throttle	Full Forward
Master Switch	On
Electric Fuel Pump	Off
Mixture	Cut-Off
Starter	Engage
Mixture (when engine fires)	Full Rich
Throttle	1000 RPM
Oil Pressure	Check

Hot Engine Start	
Throttle	1/2" Open
Master Switch	On
Electric Fuel Pump	On
Mixture	Full Rich
Starter	Engage
Throttle	1000 RPM
Oil Pressure	Check

Engine Roughness	
Carb Heat	On
If roughness continues after one minute:	
Carb Heat	Cut-Off
Mixture	Adjust
Electric Fuel Pump	On
Fuel Selector	Opposite Tank
Engine Instruments	Check
Magnetos	Check

If operation on either magneto is satisfactory, continue on that magneto at reduced power with mixture full rich, Land as soon as practical.	
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Yes	
Glide	Establish
Landing Site	Select
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Fulest Tank
Carb Heat	On
Throttle	Set
Primer	Locked
Magnetos	Check

Engine Restarted?	
No	
Mayday	Transmit 121.5
Mixture	Cut-Off
Master Switch	Off
Magnetos	Off
Fuel Selector	Off
Door	Unlatched
Engine Fire During Start	
Starter	Engage
Mixture	Cut-Off
Throttle	1800 RPM
Electric Fuel Pump	Off
Fuel Selector	Off

Engine Fire During Taxi	
Airplane	Stop
Mixture	Cut-Off
Fuel Selector	Off
Master Switch	Off

Engine Fire In Flight	
Mixture	Cut-Off
Fuel Selector	Off
Glide	Establish
Landing Site	Select
Mayday	Transmit 121.5
Magnetos	Off
Master Switch	Off

Cabin Fire In Flight	
Master Switch	Off
Electrical Equipment	Off
Vents	Open
Land	ASAP

Carburetor Icing	
Carb Hear	On
Mixture	Adjust

Spin Recovery	
Throttle	Idle
Ailerons	Neutral
Rudder	Opposite dir of rotation
Contol Wheel	Full Forward
Rudder and Contol Wheel Neutral when rotation stops.	
Pitch	Level

Yes	
Leave fuel selector on present tank. Land as soon as possible.	

Loss of Oil Pressure / High Oil Temp	
Land as soon as practical. Prepare for imminent engine failure.	

Electrical Failure	
Load Meter	Verify Inop
If load meter indicates zero	
Alternator	Off
Reduce electrical load to min	
Alternator Fld Circuit Breaker	Check & Reset
Alternator	On
If power is not restored	
Alternator	Off
Reduce electrical loads to a minimum, land as soon as practical.	

Electrical Overload	
Alternator	Off
Battery	On
If alternator loads are reduced, reduce electrical loads to a minimum, land as soon as practical. Otherwise;	
Alternator	Off
Battery	As Required

Leave Battery on only if needed to power essential electrical equipment. Land as soon as practical.	
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PA-28-160	
CHECKLIST	
Rev 1	

* Use at your own risk. Refer to aircraft POH or AFM for more detailed information.*