

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 / Up
Trim	Check
Acft Documents	On Board

Right Wing	
Flap Hinges	Check
Alleron	Check Hinges
Wingflip/Lights	Check
Leading Edge	Clean
Fuel Quantity	Check
Fuel Vent	Clear
Fuel Strainer	Sample
Landing Gear/Tire	Check
Air Inlet	Clear

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) But ADD pitot static mast and stall warning light	

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

Before Start	
Parking Brake	Set
Seats/Seat Belts	Fastened
Circuit Breakers	Check
Mixture	Rich
Carburetor Heat	Cold/Off
Throttle	1/4" Open
Prime	As Required
Fuel Selector	Lowest Tank
Master Switch/ Beacon	On

Engine Start	
Electric Fuel Pump	On
Magneto	Left
Prop Area	Clear!
Starter	Engage
Throttle	1000 - 1200 RPM
Magnetics	Both
Oil Press.	Check
Engine Instruments	Check
Electric Fuel Pump	Off

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

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

Run Up	
Parking Brakes	Set
Fuel Pump	On
Fuel Selector	Opposite 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	(4.5-5.2) Check
Ammeter	Check
Throttle	Low Idle
Throttle	1000 RPM
Parking Brake	Released

Before Takeoff	
Mixture	Set
Transponder	Altitude
Landing Light	On
Electric Fuel Pump	On
Clock	Noted

V-Speeds (MPH)			
Vr	55-60	Va	129
Vx	74	Vfe	115
Vy	85	Vno	140
Climb	100	Vne	171
Vs1	63	Glide	(gross) 83
Vso	54	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	Adjust

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

After Landing	
Flaps	Up
Mixture	Leaned
Transponder	Altitude (ALT)
Landing Light	Off
Electric Fuel Pump	Off

Parking	
Avionics	Off
Electrical Equipment	Off
Throttle	1000 RPM
Magnetos	Check Off/On
Throttle	Low Idle
Mixture	Cut-Off
Master Switch	Off

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

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Engine Failure	
Altitude Sufficient For Restart?	
No	
Glide	Establish
Landing Site	Select
Mixture	Cut-Off
Master Switch	Off
Magnetos	Off
Fuel Selector	Off

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.

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

Engine Fire During Start	
Starter	Engage
Mixture	Cut-Off
Throttle	1800 RPM
Electric Fuel Pump	Off
Fuel Selector	Off

Evacuate if fire continues

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

Evacuate Aircraft

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

Carburetor Icing	
Carb Heat	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 Temperature	
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.

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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CHECKLIST

Rev 2

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