

Preflight Inspection

Cockpit	
Parking Brake	Set
Hobbs/Tach	Check
Master Switch	On
Fuel Quantity	Check
Lights/Stall Warning	Check
Electrical Equipment	Off
Master Switch	Off
Flaps	Check/Up
Trim	Check
Pitot/Static Drains	Drain/Close
Ackt Documents	On Board
Right Wing	
Flap Hinges	Check
Aileron	Check Hinges
Wingtip/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 Inlets	Clear
Landing Light	Check
Nose Gear & Tire	Check
Engine Condition (L)	Check
Fuel Strainer	Sample
Left Wing	
Same as Right Wing (in reverse).	
Also: check pitot / static mast and stall warning horn	
Fuselage and Empenage	
Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check
Before Start	
Seat Belts	Fastened
Master Switch	On
Anti-Collision Lights	On
Nav Lights	_____
Fuel Selector	Lowest Tank
Engine Start	
Pilot In Command	Establish
Parking Brake	Set
Electric Fuel Pump	On
Mixture	Full Rich
Throttle	1/4" Open
Prime	As Required
Prop Area	Clear!
Starter	Engage

Throttle	1000 RPM
Engine Instruments	Check
Annunciators	Out
Electric Fuel Pump	Off

After Start

Alternator	On
Avionics	On
Radios	Set
Transponder	Standby
Circuit Breakers	In
Mixture	Leaned for Taxi
Fuel Selector	Opposite Tank

Before Taxi

Toe Brakes	Check
Fuel Pump	Off for Taxi

Run Up

Brakes	Set
Mixture	Full Rich
Throttle	1800 RPM
Engine Instruments	In Limits
Magnetos	Check
Annunciators	Test
Carb Heat	Check
Gyro Suction	In Limits
Throttle	Idle
RPM & Oil Pressure	In Limits
Throttle	1000 RPM

Before Takeoff

Flight Controls	Check
Flight Instruments	Set
Radios	Set
Flaps	Set
Trim	Set
Takeoff Briefing	Complete
Door & Window	Secured
Parking Brake	Released

Electric Fuel Pump	On
Landing Light	On
Transponder	Altitude
Time Off	Noted

V-Speeds (in MPH)

Vr	55-60	Va	129
Vx	74	Vfe	115
Vy	85	Vno	140
Climb	100	Vne	171
Vs	63	Glide	83
Vso	57	Max dem XW	11

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After Takeoff

Flaps	Up
Electric Fuel Pump	Off

Cruise

Throttle	_____ RPM
Mixture	Leaned
Landing Light	_____

Pre-Maneuver Check

Mixture	Rich
Min Safe Altitude	Verify
Area	Clear

Post-Maneuver Check

Mixture	Lean
Engine Instruments	Check
Fuel Selector	Fullest Tank

Approach

Flight Instrument	Ckd & Set
Radios	Set
Landing Light	On
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Fullest Tank
Approach Briefing	Complete
Seat Belts	Fastened

After Landing

Transponder	Standby
Electric Fuel Pump	Off
Landing Light	Off
Mixture	Leaned
Flaps	Up

Parking

Avionics	Off
Mixture	Cut-Off
Electrical Equipment	Off
Master & Alternator	Off
Magnetos	Off

Securing the Aircraft

Hobbs/Tach	Record
Flight Controls	Secure
Door & Window	Secure
Tie-Downs	Secure

Vref Flaps 0-10	85
Vref Flaps 25-40	76

Engine Failure

Altitude Sufficient For Restart?

No

Glide	Establish
Landing Site	Select
Mixture	Cut-Off
Master/Alternator	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/Alternator	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/Alternator	On
Electric Fuel Pump	On
Mixture	Full Rich
Starter	Engage
Throttle	1000 RPM
Oil Pressure	Check

Engine Roughness

Carb Heat	On
<i>If roughness continues after one minute:</i>	
Carb Heat	Cut-Off
Mixture	Adjust
Electric Fuel Pump	On
Fuel Selector	Opposite Tank
Engine Instruments	Check
Magnetos	Check
<i>If operation on either magneto is satisfactory, continue on that magneto at reduced power with mixture full rich. Land as soon as practical.</i>	

Yes

Glide	Establish
Landing Site	Select
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Opposite Tank
Carb Heat	On
Throttle	Set
Primer	Locked
Magnetos	Check

Engine Restarted?

No

Mayday	Transmit
Mixture	Cut-Off
Master/Alternator	Off
Magnetos	Off
Fuel Selector	Off

Engine Fire During Start

Starter	Engage
Mixture	Cut-Off
Throttle	Open
Electric Fuel Pump	Off
Fuel Selector	Off
Evacuate if fire continues	

Engine Fire During Taxi

Airplane	Stop
Mixture	Cut-Off
Fuel Selector	Off
Master/Alternator	Off
Evacuate Aircraft	

Engine Fire In Flight

Mixture	Cut-Off
Fuel Selector	Off
Glide	Establish
Landing Site	Select
Mayday	Transmit
Magnetos	Off
Master/Alternator	Off

Cabin Fire In Flight

Master/Alternator	Off
Electrical Equipment	Off
Vents	Open

Carburetor Icing

Carb Heat	On
Mixture	Adjust

Spin Recovery

Throttle	Idle
Ailerons	Neutral
Rudder	Opposite dir of rotation
Control Wheel	Full Forward
Rudder and Control 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
<i>If load meter indicates zero</i>	
Alternator	Off
<i>Reduce electrical load to min</i>	
Alternator Fld	Check
Circuit Breaker	& Reset
Alternator	On
<i>If power is not restored</i>	
Alternator	Off
<i>Reduce electrical loads to a minimum, land as soon as practical.</i>	

Electrical Overload

Alternator	Off
Master Switch	On
<i>If alternator loads are reduced, reduce electrical loads to a minimum, land as soon as practical. Otherwise:</i>	
Alternator	Off
Master Sw.	As Required
<i>Leave master on only if needed to power essential electrical equipment. Land as soon as practical.</i>	

Taylorcraft Flying Club

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> FLY SAFE <