Interior p	reflight		
Airworthiness & registration	Both present in acf		
Operator's handbook	Present in acft		
Weight and bal. data as equip.	Present in acft (in binder)		
Ignition and key	Ensure off and removed		
Hobbs & tach times	Note/Record		
Avionics/radios	Ensure of		
Master switch	Or		
Fuel gauge	Check indication		
Lights	Check as req. for day/night		
Circuit breakers	Check for any popped out		
Master switch	Off		
Headsets	Plug in		
Flaps	Extend for inspection		
Exterior in	spection		
R wing flap	Inspect ctrl rods & connect'		
R gear, strut, & brake	Inspect for abnormalities		
R wing aileron	Inspect ctrl rods & connect's		
R wingtip & light fixtures	Inspect for abnormalities		
R wing leading edge	Inspect for abnormalities		
R tank fuel tank vent	Inspect for obstructions		
R tank fuel sump	Drain & inspect fuel		
R wing fuel tank	Check level		
R wing fuel tank	Replace cap		
Cabin air inlet	Inspect for obstructions		

Nose gear, strut, exhaustInspect for abnormalitiesCowlingOpen & inspect engineOil level (~6-7 quarts)Check & add as neededOil cap & engine coverClosed & latchedWindscreenInspect & clean as neededProp, spinner, landing lightInspect for abnormalitiesEngine air inlet & alt. beltInspect for abnormalitiesEngine fuel sumpDrain & inspect fuelL gear, strut, & brakeInspect for obstructionsL tank fuel sumpDrain & inspect fuelL tank vent & pitot mastInspect for obstructionsL wing fuel tankCheck levelL leading edge & stall tabInspect for abnormalitiesL wingtip & light fixturesInspect for abnormalities			
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L wingtip & light fixtures Inspect for abnormalities			
Lather & flam			
L aileron & flap Inspect ctrl rods & connect's			
Fuselage & antennas Inspect for abnormalities			
Empennage Inspect cables, rods, connect's			
All tie downs REMOVED			
Pre-start			
Seats Adjust and ensure LOCKED			
Seatbelts Fasten and assist passengers			
Fuel selectorOn left or right			
Master & Beacon/strobe Switch On			

Engine start		Takeoff prep and run up	
Mixture	Advance halfway rich	Position aircraft for run up and hold brakes.	
Throttle	Advance half inch	Doors & windows	Closed & locked
Fuel pump	Turn on	Shoulder harnesses	Fastened
Primer	Pump 5 times & SECURE	Flight controls	Ensure free and correct
Propeller area	Clear	Trim	Adjust to neutral setting
Brakes	Apply and hold	Directional gyro	Adjust again if needed
Ignition	Key in and engage starter	Throttle	Advance to 2000 RPM
Immediately after start		Mixture control	Test and set full rich
Throttle	Adjust to 1000 RPM	L&R magnetos (ignition key)	Check < 150 RPM loss each
Fuel pump	Turn off	Carb heat	Check for RPM drop and off
Oil pressure out of red. <u>Shut down</u> if red >30s (60s winter)		Suction gauge	Check between 4-6
Ammeter	Check for output > 0	Oil temperature & pressure	Check in green
Pre-taxi		Ammeter	Check for output > 0
Flaps	Retract	Throttle	Fully back, then to 1000 RPM
Comms (radios) 1 & 2	Switch On	Takeoff briefing	
Transponder	Switch to standby	Abnormality in T/O roll?	Throttle back and brake!
Altimeter & directional gyro	Adjust as needed	Engine fails after T/O?	Do not attempt 180 return
Flight instruments	Normal indications		Pitch for 75 MPH
Taxi			Flaps as needed
Parking brake; brakes	Release; test		Declare emergency (on radio)
Turn coord. & inclinometer	Check indications in turn	Impact imminent & power no longer needed? Secure engine:	Shut off fuel
			Pull mixture to idle cut-off
		secure engine:	Ignition & batt. master off

Pre-departure items		Cruise	
Flaps	Set for takeoff	Fuel pump (>1000 AGL)	Turn off
Fuel pump	Turn on for takeoff	Throttle & Mixture	Adjust for altitude
Transponder	ALTitude mode	Trim	Adjust as needed
Lights	On as needed	Engine guages	Check all
Taxi from position in preparation for departure; hold short.		Lights	Turn off unnecessary lights.
Radios	Set freq. & make call	Directional gyro	Sync with compass
Clearance	Obtain/verify	Approach prep an	d descent/let down
Normal takeof	ff *memorize*	Weather broadcast/ATIS	Listen and write needed info
Taxi into position on centerlin	e.	Altimeter & directional gyro	Adjust as needed
Throttle	Smoothly push full forward	Communications	Make radio call
T/O roll callout	"Takeoff power set!"	Approach briefing	Complete
Centerline	Maintain without brakes	Fuel selector	Check on fullest tank
Oil temp. & pressure gauges	Check visually	Lights	Switch on as needed
T/O roll callout	"Engine gauges in green!"	Seatbelt & shoulder harness	Fasten
Airspeed indicator	Check for normal increase	Mixture & throttle	Adjust for descent
T/O roll callout	"Airspeed alive!"	Carburetor heat	On for low power settings
Accelerate to 65 MPH then pul	I back and call out "rotate!"	Trim	Adjust as needed
After t	akeoff	Final landing check (abeam	touchdown or on long final)
Airspeed	Accel. to Vx (70) or Vy (80)	Mixture & Throttle	Set for descent (13.5" MAP)
Flaps	Retract if necessary	Fuel Pump	Turn on
Trim	Adjust as needed	Carburetor heat	On for low power settings
		Flaps	Set as desired
		Airspeeds	90 downwind, 80 base, 70 final

Go around/missed approach (if needed)		Post-flight	
Throttle	Advance full forward	Aircraft check-in	mayberryaviation.com/log
Carb heat	Off	Nose wheel	Push back/position as needed
Flaps	Retract to second notch	Control yoke	Secure for overnight P on ramp
Airspeed	At least Vx (70)	Seatbelts	Fasten over seats
Flaps	Fully retract	P-brake/tie downs/chocks	Set/tie down as needed
Communications	Call and comply when able	Pitot mast cover	Replace on pitot mast
After landing	*memorize*		
Brakes	Apply		
Flaps	Retract		
Runway	Taxi clear at earliest chance		
Carburetor heat	Off when clear		
Fuel pump	Off when clear		
Transponder	Set to standby when clear	Reference speeds	
Taxi clearance	Obtain & read back	Vr (rotate)	65 MPH
Shutc	lown	Vx (best <u>angle</u> of climb)	
Radios/transponder/headsets	Off	Vy (best <u>rate</u> of climb)	80 MPH
Throttle	Adjust to 1000 RPM	Va (maneuvering speed)	115 MPH
Mixture	Pull back to cutoff	Vfe (max. for flap extension)	115 MPH
Ignition (after prop stops)	Turn off & remove key	Vno (normal cruise)	139 MPH
Electrical switches	All off	Vne (never exceed)	170 MPH
Battery Master	Off	Vs (stall, no flaps)	60 MPH
		Vso (stall, full flaps)	50 MPH
		Final approach	70 MPH
		Vg (best glide)	75 MPH

Engine roughness/failure in flight		Securing engine	
Engine gauges	Check all and diagnose issue	Fuel selector	Off
Fuel selector	Troubleshoot settings	Mixture	Pull back to cutoff
Mixture	Troubleshoot settings	Throttle	Pull back to idle
Throttle	Troubleshoot settings	Ignition	Off
Carburetor heat	Turn on if induction icing	Battery Master	Off
NOTE: If induction icing presen	nt, perform. will worsen initially	Engine fire in flight	
Master switch	Ensure on	Securing engine list (above)	Execute IMMEDIATELY
Fuel pump	Turn on	Window	Open to ventilate smoke
Ignition/key	On BOTH magnetos	Cabin Air & cabin heat	Close
If the steps above do not restan	rt the engine	Airspeed DIVE to ext	
Throttle	Slightly forward from idle	Fire does <u>not</u> extinguish	
Ignition/key/starter	Engage	IMMEDIATELY locate landing area and maneuver toward	
Engine does not restart?	Execute forced landing list	Seatbelts; shoulder harnesses	Fastened
Forced landing (no fire)		Doors Unlatch before	
Airspeed	75 MPH	Perform slip to land if needed, landing as early as possible	
IMMEDIATELY locate landing area and maneuver toward it.		Evacuate aircraft ASAP after landing	
Transponder	Squawk 7700	Fire <u>does</u> extinguish	
Radio (121.5 Mhz)	Transmit mayday distress call	Battery Master	Attempt to turn back on
Seatbelts; shoulder harnesses	Fastened	Execute forced landing (no fire) checklist (previous page)	
Flaps	Set as needed	Engine fire during start sequence	
Doors	Unlatch before impact	Securing engine list (above)	Execute IMMEDIATELY
Power no longer needed?	Execute Securing engine list	Evacuate aircraft ASAP!	
		Use fire extinguisher.	

Electrical fire or cabin fire		Fire <u>does</u> extinguish	
Battery master switches	Off	All external lights	Ensure switched off
Cabin Air & cabin heat	Close	Reverse any attempt below if fire reignites	
Windows	Open to ventilate smoke	Battery master switches	Attempt to turn back on
Fire extinguisher	Put out flames	Transponder	Squawk 7700
After electrical/	cabin/wing fire	Radio (121.5 Mhz)	Transmit mayday distress call
Circuit breakers	Do not reset any popped	Severe wing damage?	Go to forced landing list
Avionics/radios switches	Off	Little/no wing damage?	Land at nearest airport
All electrical switches	Off	Voltage warning	
Reverse any attempt below if fi	ire reignites	Avionics/radios switches	Off
Battery master switches	Attempt to turn back on	Battery master switches	Off
Avionics/radios master switch	Attempt to turn back on	Battery master switches	On
Radios & other equipment	Attempt use as needed	Avionics/radios switches	On
Wing fire		Warning reappears?	Land at nearest airport
Battery master switches Off		Light gun signals	
Cabin Air & cabin heat	Close	Steady green in flight	Cleared to land
Windows	Open to ventilate smoke	Flashing green in flight	Return to land
Perform slip to keep flames away from fuel.		Steady red in flight	Give way
Fire does <u>not</u> extinguish		Flashing red in flight	Do not land
IMMEDIATELY locate landing area and maneuver toward it.		Red and green alternating	Use caution
Seatbelts; shoulder harnesses	Fastened	Flashing green on ground	Cleared taxi
Doors	Unlatch before impact	Steady red on ground	Stop/hold
Perform slip to land if needed, landing as early as possible		Flashing red on ground	Clear the runway
Evacuate aircraft ASAP after l	anding	Flashing white on ground	Return to the ramp
		Red and green alternating	Use caution