

INITIAL

Weather & Density Altitude	Check / Determine
Weight & Balance	Check
Performance Requirements	Check
Flight Plan	File

WALKUP

Area behind plane	Check Clear
Airplane Symmetry	Check
Obvious Damage	Check
Fuel Quantity	Check
Oil	Check

CABIN

Hobbs Time	Check/Record
Papers	A.R.O.W.
Control Lock	Remove

Master	ON
Flaps	Extend
Pitot Heat	On/Check
Nav/Beacon/Strobe	Check
Taxi/Landing Light	Check
Fuel Gauges	Check

Master	OFF
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Alternate Static Source	Check
Fuel Selectors	Both
Circuit Breakers	Check In

P R E F L I G H T

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FUSELAGE / EMPENNAGE

Left Fuselage / Baggage Door	Check
Antennas	Check Secure
Control Surfaces	Check
Rear Nav Light / Rotating Beacon	Check
Right Fuselage / Empennage	Check

RIGHT WING

Flaps / Aileron / Wing	Check Top
Nav Lights / Strobes	Check Secure
Wing	Check Front / Bottom
Aileron / Flaps	Check Bottom
Tiedown	Remove
Wing Strut	Check
Wheel / Tire / Brakes	Check
Fuel Sump	Check Grade / Quality
Fuel Quantity / Cap	Check / Secure

NOSE

Engine Oil Level	Check 6 Qts Minimum
Fuel Strainer	Check
Propeller	Check
Carburetor Air Filter	Check
Landing Light	Check
Nose Wheel Strut and Tire	Check
Nose Chock	Remove
Static Source Opening	Check

LEFT WING

Pitot Tube / Cover	Check / Remove
Stall Warning Opening	Check
Fuel Tank Opening	Check
Wing Front / Tip / Nav Lts / Strobe	Check
Aileron / Flaps	Check
Tiedown	Remove
Wheel / Tire / Brakes	Check
Fuel Sump	Check

P R E F L I G H T

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BEFORE ENGINE START

Passenger Briefing	Seatbelts,Air,Fire, Exits
Seats / Seatbelts / Shoulder Harness	Adjust and Lock
FUEL SELECTOR	Both
BRAKES	Set
AVIONICS MASTER	Off
Circuit Breakers	Check In

ENGINE START

Mixture	Rich
Carburetor Heat	Cold
Prime	As Required (2 to 6)
Master Switch	On
Rotating Beacon	On
Propeller Area	CLEAR
Throttle	Open 1/8 inch
Ignition Switch	Start
Oil Pressure	Check
Flaps	Up
Nav Lights / Strobes	As Required
AVIONICS Master Switch	On
Radios	Check On
Frequencies	Check / Set
ATIS	Check
Altimeter	Set
Instruments	Check

ENGINE START

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BEFORE TAXI

Transponder	Standby
Radio	Test
Contact Ground	Who/Where/Destination/ATIS
Brakes	Check Both Seats
Taxi to runway	Wind Correction
Instruments	Attitude Indicator
	Turn Coordinator
	Heading Indicator to Compass

RUNUP

Parking Brake	Set
Flight Controls	Free and Correct
Instruments	Set
Fuel Selector	Both
Mixture	Rich (Below 3000 ft. MSL)
TRIM	For Takeoff
Primer	In / Locked
THROTTLE	1700 RPM
MAGNETOS	Check (RPM not < 125 or 50 RPM differential)
CARBURETOR HEAT	Check
AMMETER	Check / Load
SUCTION	Check
THROTTLE	Idle check then 1000 RPM
Radios	Set
Autopilot (if installed)	Off
Strobe Lights	As Desired
Throttle Friction Lock	Adjust
Doors and Windows	Closed and Locked
TRANSPONDER	ALT
Brakes	Release

BEFORE TAKEOFF

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T A K E O F F - N O R M A L

Flaps	0° - 10°
Transponder	Alt
Carburetor Heat	Cold
Throttle	Full Open
Oil Pressure	Check
Rotate	63 MPH
Climbout	Vx 74
	Vy 90

S H O R T F I E L D

Flaps	0 -10°
Transponder	Alt
Carburetor Heat	Cold
Taxi	Use Full Runway
Brakes	Apply
Mixture	Rich (Lean above 3,000)
Throttle	Full Open
Oil Pressure	Check
Brakes	Release
Elevator Control	Slightly tail low
Climbout	74 MPH (Until Clear)

S O F T F I E L D

Flaps	10°
Transponder	Alt
Carburetor Heat	Cold
Mixture	Rich (Lean above 3,000)
Taxi	Keep nosewheel up
Throttle	Full Open
Oil Pressure	Check
Elevator Control	Tail low
Liftoff	ASAP - stay in ground effect until Vy - 90 MPH

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A F T E R T A K E O F F / C L I M B

Flaps	Up
Landing Light	Off
Airspeed	92-104 MPH
Throttle	Full Open
Mixture	Lean above 3,000
Flight Plan	Open

C R U I S E

Power	2100-2700 RPM
Elevator and Rudder Trim	Adjust
Mixture	Lean above 3,000

A P P R O A C H / D E S C E N T

ATIS	Check
Altimeter	Set
Fuel Selector Valve	BOTH
Mixture	Enrich
Carburetor Heat	As Required
Instruments	Check
Heading Indicator	Set to compass

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BEFORE LANDING

Landing Light	On
Seat Belts / Harness	Secure
Mixture	Best Power
Carb Heat	On
Fuel Selectors	Both
Flaps	As Required

LANDING

Flaps	40° or As Required
Speed	69 MPH

GO AROUND

Power	Full
Carb Heat	Off
Positive Rate Climb	Retract Flaps Slowly

AFTER LANDING

Flaps	Retract
Carburetor Heat	Off
Transponder	Standby
Notify Ground	Clear of Active

LANDING

SHUTDOWN

FLIGHT PLAN	CLOSE - Contact FSS
Parking Brake	Set
Radios/Avionics	Off
Avionics Master	Off
Mixture	Idle / Cutoff
Ignition Switch	Off
Lights	Off
Master Switch	Off
Fuel Selector	Right or Left
Control Lock	Install
Hobbs Meter	Record Time

SHUTDOWN