

Ground Checklists and Information

Preflight	
Fluids	
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
Left wing, right wing, fuel strainer. Inspect for contamination.	
Fuel filler caps	SECURE
Engine oil level	CHECK
Minimum 6 quarts	
Cabin	
Pitot cover	REMOVE
POH	VERIFY PRESENT
Master	ON
Flaps	EXTEND
Fuel gauges	CHECK QUANTITY
Lights	CHECK
Tach time	RECORD
Pitot heat	TEST
Master	OFF
Fire extinguisher	SECURE
Control lock	REMOVE
Empennage	
Rudder gust lock	REMOVE
Control surfaces	CHECK
Freedom of movement and security	
Right	
Main wheel tire	CHECK INFLATION
Aileron	CHECK
Freedom of movement and security	
Nose	
Propeller, spinner	CHECK
For nicks and security	
Landing light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	CHECK INFLATED
Static source	CHECK CLEAR
Left	
Main wheel tire	CHECK INFLATION
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
Freedom of movement and security	
Final	
FlightCircle	DISPATCH
Baggage door	LOCK
Chocks	REMOVE
Tie-downs	REMOVE

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Securing	
Control lock	INSTALL
Tie-downs, chocks	APPLY
Vents, windows	CLOSE
Pitot cover	APPLY
Tach, Hobbs times	RECORD
FlightCircle	CHECK IN
Doors	LOCK

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Operating Checklists

Start	
Before Start	
Preflight inspection	COMPLETE
Passenger briefing	COMPLETE
Brakes	TEST and SET
Seats, belts, harnesses	SECURE
Fuel valve	BOTH
Radios, electrical equipment	OFF
Circuit breakers	CHECK IN
Beacon switch	ON
Engine Start	
Mixture	RICH
Carburetor heat	COLD
Prime	AS REQUIRED
Throttle	OPEN 1/8 INCH
Master	ON
Propeller area	CLEAR
Ignition switch	START
Release when engine starts	
Oil pressure	CHECK
If no pressure in 30 seconds, shutdown	
Mixture	GROUND LEAN
Before Taxi	
Avionics	ON
Headset	ON
Flaps	RETRACT
Weather	OBTAIN
Altimeter	SET
EFB Setup	AS DESIRED
Navigation, landing lights	ON
Run-up	
Instruments	CHECK and SET
VOR Check	IF NEEDED
Brakes	SET
Doors and windows	CLOSED, LOCKED
Flight controls	FREE and CORRECT
Fuel valve	BOTH
Mixture	RICH
Below 3000 feet	
Throttle	1700 RPM
Magnetos	CHECK
Max drop 125 RPM, max diff. 50 RPM	
Engine gauges, ammeter	CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

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Before Takeoff	
Radios	SET
Instruments	SET
Takeoff briefing	COMPLETE
Beacon, navigation, landing lights	ON
Carburetor heat	AS REQUIRED
Flaps	0-10°
Trim	TAKEOFF
Fuel valve	BOTH
Fuel quantity	CHECK
Mixture	RICH
Below 3000 feet	

Emergency Checklists

Engine Failure During Takeoff Run

Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Magnetos	OFF

Engine Failure Shortly After Takeoff

Airspeed	Flaps up: 65 KIAS
	Flaps down: 60 KIAS
Mixture	CUT-OFF
Fuel valve	OFF
Magnetos	OFF
Flaps	AS REQUIRED
Master	OFF

Engine Failure During Flight

Airspeed	65 KIAS
Carburetor heat	ON
Fuel valve	BOTH
Mixture	RICH
Magnetos BOTH (or START if prop stopped)	
Primer	IN and LOCKED

Forced Landing Without Engine Power

Airspeed	Flaps up: 65 KIAS
	Flaps down: 60 KIAS
Mixture	CUT-OFF
Fuel valve	OFF
Magnetos	OFF
Flaps	AS REQUIRED
	40° recommended
Master	OFF
Doors	UNLATCH BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Landing

Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note terrain/obstructions. Retract flaps upon reaching a safe altitude and airspeed.	
Radios, electrical switches	OFF
Flaps	40° (on final approach)
Airspeed	60 KIAS
Master	OFF
Doors	UNLATCH BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Magnetos	OFF
Brakes	APPLY HEAVILY

Ditching

Radio	MAYDAY on 121.5 MHz
	Give location, intentions
Heavy objects	SECURE or JETTISON
Flaps	20°-40°
Power	300 FT/MIN DESCENT AT 55 KIAS
If no power available, approach flaps up 65 KIAS or flaps 10° 60 KIAS	
Strong wind, heavy seas:	
	LAND INTO WIND
Light wind, heavy swells:	
	LAND PARALLEL TO SWELLS
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE
at established rate of descent	
Face	CUSHION at touchdown with coat
Airplane	EVACUATE
Life vests/raft	INFLATE

Engine Fire During Start On Ground

Cranking	CONTINUE
If engine starts:	
Power	1700 RPM for a few minutes
Engine	SHUTDOWN
If engine fails to start:	
Throttle	FULL OPEN
Mixture	CUT-OFF
Cranking	CONTINUE for 2-3 minutes
Fire extinguisher	OBTAIN
Master	OFF
Magnetos	OFF
Fuel valve	OFF
Fire	EXTINGUISH
Using fire extinguisher, seat cushion, wool blanket, or dirt. If practical try to remove air filter if it is ablaze.)	
Both cases: inspect and repair damage before conducting another flight.	

Engine Fire in Flight

Mixture	CUT-OFF
Fuel valve	OFF
Master	OFF
Cabin heat & air	OFF
(except overhead vents)	
Airspeed	100 KIAS
If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture	
Forced Landing Without Engine	EXECUTE
Power checklist	

Emergency Checklists

Electrical Fire in Flight

Master	OFF
All other switches (except magnetos)	OFF
Vents/cabin air/heat	CLOSE
Fire extinguisher	USE
If fire appears out and electrical power necessary to continue flight:	
Master	ON
Circuit breakers	CHECK
(do not reset faulty circuit)	
Radio/electrical switches	ON
One at a time with delay after each until short circuit is localized	
Vents/cabin air/heat	OPEN
(when fire is completely extinguished)	

Cabin Fire

Master	OFF
Vents/cabin air/heat	CLOSED
(to avoid drafts)	
Fire extinguisher	USE
WARNING: After discharging extinguisher within a closed cabin, ventilate cabin	
Land ASAP, inspect for damage	

Wing Fire

Nav lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flames away from fuel tanks and cabin. Land ASAP using flaps only as required.	

Inadvertent Icing Encounter

Pitot heat	ON
Turn back or change altitude to obtain an OAT less conducive to icing.	
Cabin heat	FULL ON
Defroster	OPEN
Cabin air	ADJUST
Maximize defroster heat and airflow	
Throttle	OPEN
Carburetor and air filter icing	MONITOR
Apply carb heat as required, lean mixture for maximum RPM if used continuously	
Land	NEAREST AIRPORT
With very rapid ice build-up, select suitable off-airport landing site	
With ≥ 1/4 inch ice on the leading edges, prepare for significantly higher stall speed	
Flaps	LEAVE RETRACTED
Open left window and scrape ice from windshield, if necessary for visibility	
Forward slip if necessary for visibility	
Approach speed	65-75 KIAS
Depending on level of accumulation	
Landing	Perform in level attitude

Static Source Blockage

Alternate static source valve	PULL ON
Airspeed	Use calibration table in POH section 5

Landing With a Flat Main Tire

Approach	NORMAL
Touchdown	GOOD TIRE FIRST
Hold airplane off flat tire as long as possible	

Over-Voltage Light Illuminates

Master	OFF (both sides)
Master	ON
If over-voltage light illuminates again:	
Flight	TERMINATE ASAP

Ammeter Shows Discharge

Alternator	OFF
Nonessential electrical equipment	OFF
Flight	TERMINATE as soon as practical