Preflight	
Flu	iids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
	wing, fuel strainer.
Inspect for cont	
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
Ca	bin
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
	ennage
Rudder gust lock	REMOVE
Control surfaces	CHECK
	ement and security
	ght
	CHECK INFLATION
Aileron	CHECK
Freedom of move	ement and security
	ose
Propeller, spinner	
	nicks and security
Landing light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	CHECK INFLATED
Static source	CHECK CLEAR
	eft
	CHECK INFLATION
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
	ement and security
	nal
FlightCircle	DISPATCH
Baggage door	LOCK
Chocks	REMOVE
Tie-downs	REMOVE

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

# **Operating Checklists**

Start	
Before Sta	rt
Preflight inspection	COMPLETE
Passenger briefing	COMPLETE
Brakes	TEST and SET
Seats, belts, harnesses	SECURE
Fuel valve	BOTH
Radios, electrical equip	ment OFF
Circuit breakers	CHECK IN
Beacon switch	ON
Engine Sta	art
Mixture	RICH
Carburetor heat	COLD
Prime	AS REQUIRED
Throttle	OPEN 1/8 INCH
Master	ON
Propeller area CLEA	
Ignition switch	START
	en engine starts
Oil pressure	CHECK
If no pressure shutdown	e in 30 seconds,
Mixture	GROUND LEAN
Before Ta	xi
Avionics	ON
Headset	ON
Flaps	RETRACT
Weather	OBTAIN
Altimeter	SET
EFB Setup	AS DESIRED
Navigation, landing ligh	hts ON

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

Run-up	
Instruments	CHECK and SET
VOR Check	IF NEEDED
Brakes	SET
Doors and windo	ws CLOSED, LOCKED
Flight controls	FREE and CORRECT
Fuel valve	вотн
Mixture	RICH
	Below 3000 feet
Throttle	1700 RPM
Magnetos	CHECK
Max drop 125 R	PM, max diff. 50 RPM
Engine gauges, a	mmeter CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

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### **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 UNLATC	H BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

<b>Precautionary La</b>	anding
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	I 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 av 65 KIAS or fla	vailable, approach flaps up ps 10° 60 KIAS
Strong wind, he	
LAND INTO V	WIND
Light wind, hea	avy swells:
LAND PARAL	LEL TO SWELLS
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE
at o	established rate of descent
Face CUSHIC	ON at touchdown with coat
Airplane	EVACUATE
Life vests/raft	INFLATE

Engine Fire During Start On Ground	
Cranking	CONTINUE
If engine star	ts:
Power	1700 RPM for a few minutes
Engine	SHUTDOWN
If engine fail:	s to start:
Throttle	FULL OPEN
Mixture	CUT-OFF
Cranking	CONTINUE for 2-3 minutes
Fire exting	uisher OBTAIN
Master	OFF
Magnetos	OFF
Fuel valve	OFF
Fire	EXTINGUISH
Using fire extinguisher, seat cushion,	
wool blanket, or dirt. If practical try to	
remove ai	r filter if it is ablaze.)
	nspect and repair damage
before condu	cting another flight.

<b>Engine Fire in Flight</b>			
Mixture	CUT-OFF		
Fuel valve	OFF		
Master	OFF		
Cabin heat & air			
(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	EXECUTE		
Engine Power checklist			

## **Emergency Checklists**

Electrical Fire in Flight			
Master	OFF		
All other switches (except	OFF		
magnetos)			
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 extin	nguished)		

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 fo	r 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.			

Inadventent 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 MONITOR			
icing			
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

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

A	m	me	ter	Sho	ws D	isc	harge

Alternator	OFF
Nonessential electrical equip	mentOFF
Flight TERMINATE as soon as	practical