Freilight  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 Engine oil level CHECK  Freil SUMPY  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  Control lock REMOVE Control surfaces CHECK Freedom of movement and security  Right Main wheel tire CHECK INFLATION Aileron CHECK Freedom of movement and security Landing light CHECK CLEAR Air filter CHECK INFLATED Static source CHECK INFLATED Static source CHECK INFLATED Static source CHECK CLEAR Right Main wheel tire CHECK INFLATED Static source CHECK CLEAR Air filter CHECK CLEAR Nosewheel & strut CHECK INFLATED Static source CHECK CLEAR Air filter CHECK CLEAR AIR MAIN Wheel tire CHECK CLEAR AIR MAIN Wheel tire CHECK CLEAR AIR MAIN WHEEL CHECK AIR MAIN WH		CKIISIS allu IIII
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FlightCircle DISPATCH Baggage door LOCK Chocks REMOVE	Freedom of	movement and security
Baggage door LOCK Chocks REMOVE	F	inal
Chocks REMOVE	FlightCircle	
Chocks REMOVE		LOCK
Tie-downs REMOVE	Chocks	
	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

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 G	ROUND LEAN
Before Taxi	
Avionics	ON
Headset	ON
Flaps	RETRACT
Weather	OBTAIN
Altimeter	SET
EFB Setup AS DESIRED	
Navigation, landing lights	ON

Before Takeoff	
Radios	SET
Instruments	SET
Takeoff briefing	COMPLETE
Beacon, navigation, landing	g 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 windows	CLOSED, LOCKED
Flight controls	FREE and CORRECT
Fuel valve	BOTH
Mixture	RICH
	Below 3000 feet
Throttle	1700 RPM
Magnetos	CHECK
Max drop 125 I	RPM, max diff. 50 RPM
Engine gauges, amme	eter CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

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## **Emergency Checklists**

<b>Engine Failure During Takeoff Run</b>	
Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Magnetos	OFF

<b>Engine Failure Shortly After Takeoff</b>	
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 E	BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Landing	
Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note terrain/obs	structions. Retract flaps
upon reaching a	safe altitude and airspeed.
Radios, electrical sw	ritches 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 a	vailable, approach flaps up 65
KIAS or flaps	s 10° 60 KIAS
Strong wind, hea	vy seas:
LAND INTO	WIND
Light wind, heav	y swells:
LAND PARAI	LLEL TO SWELLS
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE
	at established rate of descent
Face CUS	HION at touchdown with coat
Airplane	EVACUATE
Life vests/raft	INFLATE

Engine Fire Du	ring 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 extinguisl	her OBTAIN
Master	OFF
Magnetos	OFF
Fuel valve	OFF
Fire	EXTINGUISH
Using fire ext	inguisher, seat cushion, wool
blanket, or dirt. If practical try to remove air	
filter if it is ab	laze.)
Both cases: inspect and repair damage before	
conducting anoth	ner flight.

<b>Engine Fire in Flight</b>		
Mixture	CUT-OFF	
Fuel valve	OFF	
Master	OFF	
Cabin heat & air	OFF	
(except ov	erhead 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 magnet	os) OFF
Vents/cabin air/heat	<b>CLOSE</b>
Fire extinguisher	USE
If fire appears out and electrical po	ower
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	guished)

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	

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

Inadventent Icir	ng Encounter
Pitot heat	ON
Turn back or cha	nge altitude to obtain an
OAT less conduc	ive to icing.
Cabin heat	FULL ON
Defroster	OPEN
Cabin air	ADJUST
Maximize (	defroster heat and airflow
Throttle	OPEN
Carburetor and a	ir filter icing MONITOR
Apply carb heat	as required, lean mixture
for maximum R	PM if used continuously
Land	NEAREST AIRPORT
With very	rapid ice build-up, select
	ff-airport landing site
With $\geq 1/4$ inch i	ce on the leading edges,
prepare for signif	ficantly higher stall speed
Flaps	LEAVE RETRACTED
	v and scrape ice from
	cessary for visibility
Forward slip if no	ecessary for visibility
Approach speed	65-75 KIAS
Depending	on level of accumulation
Landing	Perform in level attitude

Static Source Dioc	Kage	
Alternate static sou	rce valve	PULL ON
Airspeed	Use cali	bration table

in POH section 5

## 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	

Amme	ter Shows Discharge	
Alterna	itor	OFF
Noness	ential electrical equipment	OFF
Flight	TERMINATE as soon as pr	actical