Giodila C.	necknsts an
Preflight	
	luids
Magnetos Fuel quantity	OFF CHECK VISUALLY
Fuel sumps	DRAIN
	ght wing, fuel strainer.
	ontamination.
Fuel filler caps	SECURE
Engine oil level	CHECK
Lingine on level	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
	pennage
Rudder gust lock	REMOVE
Control surfaces	CHECK
Freedom of r	novement and security
	Right
	CHECK INFLATION
Aileron	CHECK
Freedom of r	novement and security
	Nose
Propeller, spinner	CHECK
1 / 1	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 n	novement and security
I	Final
FlightCircle	DISPATCH
Baggage door	LOCK
Chocks	REMOVE
CHOCKS	

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 S	tart
Preflight inspection	COMPLETE
Passenger briefing	COMPLETE
Brakes	TEST and SET
Seats, belts, harnesses	SECURE
Fuel valve	BOTH
Radios, electrical equip	
Circuit breakers	CHECK IN
Beacon switch	ON
Engine S	·
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 light	nts 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 windows Cl	LOSED, LOCKED
Flight controls FRE	E 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, ammete	er 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
Í	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 S7	TART 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
	$40^{\circ}$ recommended
Master	OFF
Doors UNLATCH	I BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary La	anding
Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note terrain/obs	tructions. Retract flaps
upon reaching a	safe altitude and airspeed.
Radios, electrical s	witches 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 $121.5 \text{ MHz}$
	Give location, intentions
Heavy objects	SECURE or JETTISON
Flaps	20°-40°
Power 300 FT/MI	N DESCENT AT 55 KIAS
If no power avai	lable, approach flaps up 65
KIAS or flaps 10	0° 60 KIAS
Strong wind, heavy	v seas:
LAND INTO W	IND
Light wind, heavy	swells:
LAND PARALL	EL TO SWELLS
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE
at	established rate of descent
Face CUSHIC	ON at touchdown with coat
Airplane	EVACUATE
Life vests/raft	INFLATE

Engine Fire D	uring 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 extinguis	her 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 abla	aze.)

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	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 ext	inguished)	

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	7
from fuel tanks and cabin. Land AS	AP
using flaps only as required.	

Inadventent Ici	ng Encounter
Pitot heat	ON
Turn back or char	ge altitude to obtain
an OAT less cond	ucive to icing.
Cabin heat	FULL ON
Defroster	OPEN
Cabin air	ADJUST
Maximize de	froster heat and airflow
Throttle	OPEN
Carburetor and ai	r filter icingMONITOR
Apply carb	heat as required, lean
mixture for	maximum RPM if used
continuously	7
Land	NEAREST AIRPORT
With very rapid ice build-up, select	
suitable off-airport landing site	
With $\geq 1/4$ inch is	ce 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 P	erform 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 Li	ight Illuminates
Master	OFF (both sides)
Master	ON
If over-voltage light	nt illuminates again:
Flight	TERMINATE ASAP

Ammeter Snows Discharge	
Alternator	OFF
Nonessential electrical equipment	OFF
Flight TERMINATE as soon as pra	actical