Orouna Che	ckiists aiiu ii
Preflight	
	uids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
	g, fuel strainer. Inspect
for contamination.	9,
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
Ca	abin
Pitot cover	REMOVE
РОН	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
	novement and security
	ght
Main wheel tire	CHECK INFLATION
Aileron	CHECK
	novement and security
	ose
Propeller, spinner	CHECK
	For nicks and security
Landing light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	CHECK INFLATED
Static source	CHECK CLEAR
	eft
Main wheel tire	CHECK INFLATION
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
	novement and security
	inal
FlightCircle	DISPATCH
Baggage door	LOCK
Chocks	REMOVE
Tie-downs	
(11e-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	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	ВОТН
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

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

Climb	
Airspeed	70-90 KIAS
Throttle	FULL
Mixture	RICH
	May lean above 3000 feet

Cruise	
Power	2200-2700 RPM
	No more than 75%
Trim	ADJUST
Mixture	LEAN

١	Descent	
	Mixture	RICH
	Power	AS DESIRED
	Carburetor heat	AS REQUIRED
		To prevent carburetor icing

Before Landing		
Fuel valve	ВОТН	
Mixture	RICH	
Carburetor heat	ON	
Apply full heat before closing throttle		
Airspeed	60-70 KIAS (flaps UP)	
Flaps	AS DESIRED	
Airspeed	55-65 KIAS (flaps DOWN)	

Balked Landing	
Throttle	FULL
Carburetor heat	COLD
Flaps	20°
Airspeed	55 KIAS
Flaps	RETRACT slowly

After Landing	
Flaps	UP
Caburetor heat	OFF
Mixture	GROUND LEAN

Shutdown	
Brakes	SET
Tach time	RECORD
Radios, electrical equipment	OFF
Mixture	CUT-OFF
Magnetos	OFF
Master	OFF

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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		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 B	BEFORE TOUCHDOWN	
Touchdown	SLIGHTLY TAIL LOW	
Brakes	APPLY HEAVILY	

Precautionary Land	ling	
Flaps	20°	
Airspeed	60 KIAS	
Selected field	FLY OVER	
Note terrain/obstr	uctions. Retract flaps	
upon reaching a sa	afe 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/M	IIN DESCENT AT 55 KIAS	
If no power avail	lable, 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 CUSHIO	N at touchdown with coat	
Airplane	EVACUATE	
Life vests/raft	INFLATE	

Engine Fire Du	ıring 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	sher 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 extin	guished)	

Cabin Tire	
Master	OFF
Vents/cabin air/heat	CLOSED
	(to avoid drafts)
Fire extinguisher	USE
WARNING: After discha	arging extinguisher
within a closed cabin, v	entilate 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.	

Inadventent Icing E	ncounter	
Pitot heat	ON	
Turn back or change	altitude to obtain an	
OAT less conducive to	o icing.	
Cabin heat	FULL ON	
Defroster	OPEN	
Cabin air	ADJUST	
Maximize d	efroster heat and airflow	
Throttle	OPEN	
Carburetor and air fil		
Apply carb heat as r	equired, lean mixture for	
maximum RPM if us		
Land	NEAREST AIRPORT	
	build-up, select suitable	
off-airport landing		
With $\geq 1/4$ 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	
	on level of accumulation	
Landing	Perform in level attitude	

Static Source Bloc	kage
Alternate static sou	rce 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 possi			

Over-Voltage Light Illuminates			
Master OFF (both sides			
Master	ON		
If over-voltage light illuminates again:			
Flight	TERMINATE ASAP		

	Ammete	r Shows Discharge	
	Alternato	r	OFF
١	Nonessen	tial electrical equipment	OFF
Flight TE		TERMINATE as soon as p	ractical