N73146

Operating Checklists

N73146

Preflight	
Flı	ıids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
	ht wing, fuel strainer.
Inspect for co	ntamination.
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
	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
Control lock	REMOVE
Empe	nnage
Rudder gust lock	REMOVE
Control surfaces	CHECK
Freedom of m	ovement and security
Ri	ght
Main wheel tire	CHECK INFLATION
Aileron	CHECK
Freedom of m	ovement and security
Ne	ose
Propeller, spinner	CHECK
I	For nicks and security
Landing light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	CHECK INFLATED
Static source	CHECK CLEAR
L	eft
Main wheel tire	CHECK INFLATION
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
Freedom of m	ovement and security
Fi	nal
FlightCircle	DISPATCH
Baggage door	LOCK
Chocks	REMOVE
Tie-downs	REMOVE

manon	14/3140
ecuring	
Control lock	INSTALL
ie-downs, chocks	APPLY
ents, windows	CLOSE
itot cover	APPLY
Cach, Hobbs times	RECORD
lightCircle	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 STAR	
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	

Before Takeoff	
Radios	SET
Instruments	SET
Takeoff briefing	COMPLETE
Beacon, navigation, land	ing lights ON
Carburetor heat	AS REQUIRED
Flaps	0-10°
Trim	TAKEOFF
Fuel valve	ВОТН
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 l	RPM, max diff. 50 RPM
Engine gauges, ammet	ter 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 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/obstructions. Retract flaps	
upon reaching a sa	afe altitude and airspeed.
Radios, electrical swit	ches 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/N	MIN DESCENT AT 55 KIAS
If no power ava	ilable, approach flaps up 65
KIAS or flaps 10	0° 60 KIAS
Strong wind, heavy	y seas:
LAND INTO WI	ND
Light wind, heavy	swells:
LAND PARALLE	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 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 extinguisher, seat cushion, wool	
blanket, or dirt. If practical try to remove air	
filter if it is abl	aze.)
Both cases: inspe	ect and repair damage before
conducting anot	her flight.

Engine Fire in Flight		
Mixture	CUT-OFF	
Fuel valve	OFF	
Master	OFF	
Cabin heat & air	OFF	
(except ove	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 magnetos)	OFF	
Vents/cabin air/heat	CLOSE	
Fire extinguisher	USE	
If fire appears out and electrical powe	r	
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 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 o	defroster heat and airflow	
Throttle	OPEN	
Carburetor and air fi	lter icing MONITOR	
Apply carb heat as required, lean mixture for		
maximum RPM if u	sed 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 an	nd scrape ice from	
windshield, if necess	ary 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 Blo	ckage
Alternate static so	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 fla	at 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		
Alternato	r	OFF
Nonessential electrical equipment O Flight TERMINATE as soon as practic		