N73146

Operating Checklists

N73146

Freelight 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 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 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 INFLATED Fuel tank vent CHECK INFLATION Fuel tank vent CHECK CLEAR Stall warning TEST Aileron CHECK Freedom of movement and security Fuel tank vent CHECK CLEAR Stall warning TEST Aileron CHECK Freedom of movement and security Fuel tank vent CHECK CLEAR Stall warning TEST Aileron CHECK Freedom of movement and security
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Aileron CHECK Freedom of movement and security
Freedom of movement and security
Final
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

Start		
Before Sta	art	
Preflight inspection	COMPLETE	
Passenger briefing	COMPLETE	
Brakes	TEST and SET	
Seats, belts, harnesses	SECURE	
Fuel valve	BOTH	
Radios, electrical equipme	nt OFF	
Circuit breakers	CHECK IN	
Beacon switch	ON	
Engine St	art	
Mixture	RICH	
Carburetor heat	COLD	
Prime	AS REQUIRED	
Throttle		
Master	ON	
Propeller area	rea 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	ling 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 RPM, max diff. 50 RPM	
Engine gauges, ammet	er CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

Version 1 PR 27

Emergency Checklists

OFF

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

Engine randre shortly After Takeon	
Airspeed	Flaps up: 65 KIAS
	Flaps down: 60 KIAS
Mixture	CUT-OFF
Fuel valve	OFF
Magnetos	OFF
Flans	AS REOUIRED

Master

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	BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Land	ing
Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note terrain/obstru	ıctions. Retract flaps
upon reaching a sa	fe altitude and airspeed.
Radios, electrical swite	ches OFF
Flaps	40° (on final approach)
Airspeed	60 KIAS
Master	OFF
Doors UNLATCH B	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	IN DESCENT AT 55 KIAS	
If no power avai	ilable, approach flaps up 65	
KIAS or flaps 10	° 60 KIAS	
Strong wind, heavy	Strong wind, heavy seas:	
LAND INTO WIND		
Light wind, heavy swells:		
LAND PARALLE	L 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	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 ano	ther flight.	

Engine Fire in Flight		
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 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 extinguished)	

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 fron		
fuel tanks and cabin. Land ASAP using		
flaps only as required.		

Inadventent Ici	ng Encounter	
Pitot heat	ON	
Turn back or cha	inge 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	air filter icing MONITOR	
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		
	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		
	on level of accumulation	
Landing	Perform in level attitude	

Static Source Diockage			
Alternate static	source valve	PULL ON	
Airspeed	Use calib	ration 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 Light Illuminates		
Master	OFF (both sides)	
Master	ON	
If over-voltage light illuminates again:		
Flight	TERMINATE ASAP	

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